EXHIBIT B34

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW JERSEY

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IN RE: JOHNSON & JOHNSON : MDL NO. 2592

TALCUM POWDER PRODUCTS : 16-2738 (FLW) (LGH)

MARKETING, SALES PRACTICES : AND PRODUCTS LIABILITY :

LITIGATION

THIS DOCUMENT RELATES TO: ALL CASES

Videotaped Deposition of

MARK KREKELER, Ph.D.

Taken: By the Defendants

Pursuant to Notice

Date: January 25, 2019

Time: Commencing at 9:16 a.m.

Place: Hampton Inn

375 South College Avenue

Oxford, Ohio 45056

Before: Susan M. Gee, RMR, CRR

Notary Public - State of Ohio

and

Melinda Sindiong, CLVS

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3	On behalf of the Plaintiffs:		2 3 WITNESS: MARK KREKELER, Ph.D.	
	BEASLEY ALLEN LAW FIRM		4 PAGE	
4	BY: P. LEIGH O'DELL, ESQ. BY: JENNIFER K. EMMEL, ESQ.		5 CROSS-EXAMINATION	
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6	Montgomery, Alabama 36103 (334) 269-2343		8 By Mr. Ferguson 283	
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7 8	jennifer.emmel@beasleyallen.com MOTLEY RICE LLC		10 By Ms. O'Dell 309	
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1.0	WILENTZ, GOLDMAN & SPITZER, P.A.		NUMBER DESCRIPTION PAGE	
12	BY: DANIEL R. LAPINSKI, ESQ. 90 Woodbridge Cener Drive	15	15 1 11/16/18 Rule 26 Expert Report of 13	
13	Suite 900	1 1 6	1 11/16/18 Rule 26 Expert Report of 13 16 Mark Krekeler, Ph.D.	
14	Woodbridge, New Jersey 07095 (732) 865-6066		17 2 1/17/19 Rule 26 Addendum to the 13	
	dlapinski@wilentz.com	-	Expert Report of Mark Krekeler, Ph.D.	
15 16	On behalf of Defendant Johnson & Johnson:	18	18	
17	DRINKER BIDDLE & REATH LLP	,,	3 IRSST report R-755 82	
18	BY: JACK N. FROST, JR., ESQ. 600 Campus Drive	1 13	19 4 IC 8757 Bureau of Mines Information 86	
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19	(873) 549-7338 jack.frost@dbr.com	21	5 IARC Monographs on the Evaluation of 91	
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21	SKADDEN, ARPS, SLATE, MEAGHER & FLOM BY: NINA R. ROSE, ESQ.	22	22	
	1440 New York Avenue, N.W.	23	6 U.S. Department of Health and Human 109 Services Toxicological Profile for	
22	Washington, D.C. 20005 (202) 371-7105	23	Asbestos 9/2001	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	On behalf of Defendant Pharmatech: TUCKER ELLIS LLP TARIQ M. NAEEM, ESQ. 950 Main Avenue, Suite 1100 Cleveland, Ohio 44113 (216) 696-3675 tariq.naeem@tuckerellis.com On behalf of Defendant Imerys Talc America, Inc.: GORDON & REES SCULLY MANSUKHANI, LLP BY: KENNETH J. FERGUSON, ESQ. 816 Congress Avenue Suite 1510 Austin, Texas 78701 (512) 391-0197 kferguson@gordonres.com GORDON & REES SCULLY MANSUKHANI, LLP BY: ANDREW W. CARY, ESQ. 275 Battery Street Suite 2000 San Francisco, California 94111 (415) 875-3163 acary@grsm.com On behalf of Personal Care Products Council: SEYFARTH SHAW LLP BY: JAMES R. BILLINGS-KANG, ESQ. 975 F Street, N.W.	2 3 3 4 4 5 6 6 7 8 8 9 10 11 12 13 13 14 15 16 17 18 19 20 21	2 NUMBER DESCRIPTION PAGE 7 NIOSH Current Intelligence Bulletin 62 116 Asbestos fibers and Other Elongate Mineral Particles: State of the Science and Roadmap for Research, Revised Edition State of Montana, Bureau of Mines and 120 Geology, Reconnaissance Geology of Southernmost Ravalli County, Montana, by Richard B. Berg 9 International Geology Review, The 140 Serpentine Multisystem Revisited: Chrysotile is Metastable 10 Windsor Minerals, Inc. 144 Geology of the Talc Mine at East Johnson, Vermont Bates JNJ000272469 - 668 11 Using the geologic setting 160 of talc deposits as an indicator of amphibole asbestos content by Bradley S. Van Gosen, et al. 12 Geology, Asbestos and Health by 160 Malcolm Ross, December 1974 13 Letter from RJ Lee Group dated 5/16/16 161 Bates JNJ 000521616 - 638 14 Krekeler Deposition Italian Documents 164 Various Bates numbers Department of the Interior Geological 174 Survey Circular 95 - Talc Investigations Vermont Preliminary Report	
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1	EXHIBITS	1	Rees, for Imerys.
2	NUMBER DESCRIPTION PAGE 18 Preliminary Investigation of Cosmetic 188	2	MR. CARY: Andrew Cary, Gordon & Rees,
	Talc Potential, Lungsheng Operations,	3	for Imerys.
4	Kwangsi, China Bates JNJNL61_000002060 - 89	4	MR. NAEEM: Tariq Naeem, Tucker Ellis,
5	_	5	for the Pharmatech defendants.
6	 Sampling of Run-of-mine mill feed - 209 A practical approach 	6	MR. BILLINGS-KANG: James Billings-Kang
	by Afewu and Lewis	7	for Personal Care Products Council.
7	20 Email dated 10/31/13 218	8	VIDEOGRAPHER: The court reporter is
8	Bates JNJ14T5_000005157 - 48	9	Susan Gee, RMR and CRR, and will now swear in
9	21 Zuffar Days Symposium Held in Cagliari 236 October 10 - 15, 1988	10	the witness, and we can proceed.
10	Geology of the Italian high quality	11	MARK KREKELER, Ph.D.
11	cosmetic talc from the Pinerolo district (Western Alps) by Sandrone and Zucchetti	12	of lawful age, a witness herein, being first duly sworn
L2	22 Krekeler Deposition Asbestos Documents 240	13	as hereinafter certified, was examined and deposed as
13	Various Bates numbers	14	follows:
	23 An Introduction to the Rock-Forming 285	15	CROSS-EXAMINATION
L4 L5	Materials by Deer, Howie & Zussman 24 The Mineral Industry of Italy by 288	16	BY MR. FROST:
_	by Harold R. Newman	17	
.6	25 Analysis of an Authentic Historical 289		Q. Good morning, Dr. Krekeler. My name is
.7	Italian Cosmetic Talc Sample - Further	18	Jack Frost. I'll be asking you probably the majority of
.8	Evidence for he Lack of Cancer Risk	19	the questions today.
	26 Excerpt from the Deposition of Patrick 291	20	A. Okay.
L9 20	Downey taken 11/8/17 27 FDA Action Related to Talc 297	21	Q. But before we get started, could you
1	28 USB Jump Drive 331	22	please state your full name for the record?
22	29 Color Photograph 331 30 Color Photograph 331	23	A. Mark Paul Spigg Krekeler.
24		24	Q. And where do you currently work?
25		25	A. I am an associate professor at Miami
	Page	_	D
	9	7	Page 9
1	VIDEOGRAPHER: We are now on the record.		
1 2	VIDEOGRAPHER: We are now on the record.	1	University. I hold an appointment where my tenure is
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Page 10 Page 12 1 Very good. 1 just say it again and agree on it or -- I'm unclear. 2 Q. So we just need to make sure that, you 2 I've never done this before. 3 3 know, we're verbalizing everything. BY MR. FROST: 4 4 Q. Sure. So to the extent we can, just Second thing is, and I guarantee we'll 5 5 get in trouble for this at some point. It's very hard listen to my question and answer the question, yeah, as 6 6 for the court reporter to write down when both of us are I've asked it. What shows up on the screen is called 7 talking at the same time. I'm not saying we're doing it 7 phonetic, so sometimes the words converted over by the 8 8 in a rude way but just normal human conversation. computer will be incorrect, and ultimately, when they 9 9 Eventually, you'll pick up what the end of my question come and transfer it for the final transcript, it will 10 10 is. I'll pick up the end of your answer, and we'll just change. 11 11 start naturally talking over each other. We've got to So these are sort of there as a guide, if 12 be really careful about that, you know, make sure she 12 we can't remember what we're talking about a couple 13 can write it down. 13 minutes ago, to look back. But this is not the official 14 14 record. The official record will be what's on the At some points during the deposition, 15 15 your counsel may object or other people in the room may video, and then, ultimately, what's in the transcript, 16 16 object. Allow time to give counsel, you know, to put which might end up being a little different than what's 17 17 their objections on. Once they're done, unless you're on the screen. 18 instructed otherwise by your counsel, you have to answer 18 A. Okay. And because -- so a third party 19 19 my question. would go and transcribe what's on the video? 20 The other thing is, if you answer my 20 Q. So I'm not sure at the end, yeah. 21 question, I'm going to understand you assumed it or 21 A. So if there's something garbled on here, 22 understood it. So if you don't understand what I'm 22 someone else does that? 23 asking, you need clarification, let me know. If there 23 Yes. That's correct. Q. 24 24 A. So they don't come back to me or -is, you know, something you need for me to work out, I'd 25 25 rather work it out than have you answer something that, No. You don't need to worry about that. Page 11 Page 13 1 you know, you and I are talking at different places. 1 That's done somewhere else. 2 2 The only other thing, too, I don't want A. Okay. Yeah. I don't -- I don't know. 3 you to guess here today, and if you're guessing or 3 Q. No. That's okay. It's a fair question. 4 4 But -making an estimate, just let us know. And, you know, 5 5 VIDEOGRAPHER: Sorry. If I can interject but if it's a wild guess, I don't know, I don't 6 as well, you're talking with your hands, and it 6 remember, those are perfectly fine answers. 7 does get in the shot. 7 And other than that, if you need a break 8 MR. FROST: Oh, mine does? 8 at any time, let us know. If there's a question 9 VIDEOGRAPHER: Yes. 9 pending, you've got to answer the question first, but 10 THE WITNESS: Okay. Sorry. 10 we're here on your schedule, so -- and we'll try to 11 VIDEOGRAPHER: Thank you. 11 break every hour, hour and a half or so, but if you need 12 MR. FROST: All right. So if I can mark 12 to break in between, you know, just let us know, and 13 a couple exhibits to begin. I'll mark this as 13 we'll stop. 14 Exhibit 1. 14 A. Can I ask a question? 15 (Exhibit 1 was marked for 15 Q. Sure. 16 identification.) 16 So I've never done this before. I've A. 17 MR. FROST: I'll mark this as Exhibit 2. 17 never been deposed, and I noticed early on, when the 18 THE WITNESS: Does it matter which copy? 18 videographer was making some statements, that the 19 MS. SCOTT: You can take a look at 19 statements that I heard were not recorded accurately on 20 whichever you're more comfortable with. They're 2.0 this. So the word was "demotion." 21 the same. 21 MS. SCOTT: You don't need to worry about 22 MR. FROST: I imagine they're the same, 22 that. 23 right? 23 A. So but my question is, is if I go -- if I 24 (Exhibit 2 was marked for 24 use this to read your question, how do I know a word's 25 identification.) 25 not -- how do we make sure that word is right? Do we

4 (Pages 10 to 13)

Page 14

1 BY MR. FROST:

- Q. All right. In front of you marked as Exhibits 1 and 2 are your expert report that's dated November 16th, 2018, and then Exhibit 2 is your supplemental report dated January 17th, 2019; is that correct?
 - A. Yes.
- Q. Are these the only two reports that you've written in this case?
 - A. Yes.
 - Q. Now, you understand you've been designated by the plaintiffs in this case in the Johnson & Johnson talc MDL?
 - A. Yes.

I finished that degree in '98.

- Q. Okay. Can you explain to me what, or define what your area of expertise is?
- A. Yes. So my undergraduate degree was in geology, and since my freshman year, I've been working with clay materials and clay intervals. My degree is in -- my undergraduate degree is a bachelor's of science in geology, and so that entailed field work. And, actually, I think since my freshman year, I've been doing powder x-ray diffraction. My master's was on, also, a clay rich rock, bentonite, so -- and then in --

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phyllosilicates as well. And, basically, I worked with industrial mineral materials, mine materials, and then my time at Miami University, I've also worked with synthetic minerals and natural minerals.

So my training as a Ph.D. student was to look at the phyllosilicate minerals as a whole. So mineralogy has evolved significantly in that we think of minerals as sort of a system, and we look at things at how they're interrelated. And that's -- so, basically, I've had some -- my degree is in geotechnical engineering and environmental earth science, so I have a few engineering classes. And then I've collaborated and worked with several mineral companies. My Ph.D. was sponsored by a mineral company, in part.

Q. So long story short, would you define your area of expertise as mineralogy?

A. Yes.

- Q. Okay. And the two reports in front of you, do those reflect all the opinions you plan to give in this case or intend to give in this case?
- A. Well, again, I'm legally not familiar with the process, but I think I -- currently, this is my opinions. If something new comes up and I'm asked, I would...
 - Q. Okay. I guess a better way to ask that

Page 15

Then my Ph.D. was in mineralogy and specifically phyllosilicate mineralogy and looking at the impurities and materials associated with phyllosilicates. My dissertation was on palygorskite-sepiolite minerals and smectite minerals. My Ph.D. advisor was Steve Guggenheim, who essentially is the North American expert in crystallography for phyllosilicates.

And, then, so I finished that degree in 2003. Throughout my degrees, I think my first consulting job was a project with Amoco when I was an undergrad doing x-ray diffraction, looking at clays from Trinidad through my advisor, Warren Huff. But through that period of time, I did occasional consulting projects, largely with powder x-ray diffraction and sometimes electron microscopy.

Then I did not do a postdoc. There were two mineralogy positions available nationwide when I graduated. My graduation year was 2003. I then got one of those positions at George Mason University, and I was hired in a department of environmental science and policy. And my research there, I was specifically teaching mineralogy. Then my research was centered around mineralogy.

I produced a few patents relating to

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question --

- A. Sorry. I'm unclear. I'm not familiar.
- Q. Yeah. That's okay. As we sit here today, do you intend to offer any opinions in this case that aren't reflected in either of these two reports?
 - A. No. The reports are what I am using.
- Q. And were you asked to render any reports by your counsel that you did not or are not included in those reports?

MS. SCOTT: Objection. You can answer. BY MR. FROST:

- O. You can answer.
- A. Oh, I can answer? So, if I remember correctly, with the deposition notice, it was requested that reports or documents I prepared relating to, I think, all talc cases were requested. So there's one report that I gave to them from another case that I'm involved in.
- Q. Okay. So you're currently involved in another talc case or is this an older case?
 - A. This is a current case.
 - Q. And it's a talc case?
 - A. It is a tale-related case, yes.
 - Q. Is it a case against Johnson & Johnson?
 - A. I believe it's a case against Imerys.

5 (Pages 14 to 17)

	Page 18		Page 20
1	Q. Against Imerys? Do you know what the	1	cite throughout the report?
2	case is called or where it's venued?	2	A. Yes.
3	A. I don't remember offhand. The law firm	3	Q. The piece of literature, things like
4	is Waters & Kraus.	4	that?
5	Q. That's who retained you?	5	A. Yes.
6	A. Yes.	6	Q. Okay. Other than documents, books,
7	Q. Do you know what state it's in?	7	literature, et cetera, that are already included in your
8	A. The law firm is in Texas. I think the	8	report, have you brought anything else with you today?
9	case is in Texas.	9	A. No. I believe just what is in the
10	Q. And what have you been asked to do in	10	report.
11	that case?	11	Q. Okay. We're also going to probably send
12	MS. SCOTT: I'm going to object to the	12	a request for, you know, a copy of the report written on
13	extent that I'm not aware of what his role is in	13	the other case as well. It seems like it was turned
14	that case.	14	over to counsel.
15	MR. FROST: Sure.	15	MS. O'DELL: No. You misunderstood.
16	MS. SCOTT: And I'm not sure he knows	16	It's not been turned over to counsel.
17	what's going on and, you know, the extent of	17	MR. FROST: It hasn't been turned over to
18	the whether he's been disclosed in that case	18	you guys.
19	or not.	19	MS. O'DELL: We don't have any
20	MR. FROST: Okay.	20	information about that case.
21	MS. SCOTT: So I'm going to object to any	21	MR. FROST: Oh, okay.
22	questions on that.	22	MS. O'DELL: Yeah. So if you have any
23	MR. FROST: All right. We'll reserve our	23	questions about that, you need to talk to Waters
24	right to come back.	24	& Kraus or whoever else is involved.
25	MS. SCOTT: Sure.	25	
	Page 19		Page 21
1	Page 19 BY MR. FROST:	1	Page 21 BY MR. FROST:
1 2	BY MR. FROST: Q. Have you brought that report that you	1 2	
	BY MR. FROST:		BY MR. FROST:
2	BY MR. FROST: Q. Have you brought that report that you	2	BY MR. FROST: Q. So before, when you said you'd given the
2	BY MR. FROST: Q. Have you brought that report that you drafted in that case with you today?	2 3	BY MR. FROST: Q. So before, when you said you'd given the report to counsel, you're talking about Waters & Kraus,
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Page 22 Page 24 Is it fair to say that, effectively, the 1 Johnson & Johnson MDL case. 1 2 2 opinions you're rendering here are limited to review of A. Yes. I'm up to date with invoices. 3 3 the geologic deposits utilized by Johnson & Johnson And did you bring any of those invoices 4 4 and -- it's kind of garbled. with you? 5 5 MS. SCOTT: Counsel, those were provided Q. Yeah. And Imerys. 6 previously about a week ago by email. 6 A. And to create talcum powder. So, yes, I 7 MR. FROST: All right. 7 reviewed those materials. 8 BY MR. FROST: 8 Q. Okay. And you're not here to opine about 9 Q. But other than that, there's nothing, no 9 anything outside of those geological deposits and the 10 additional documents or invoices? 10 mining practices, et cetera, that were going on at those A. Right. There's no outstanding billing or 11 11 areas? 12 anything --12 MS. SCOTT: Objection. 13 Yeah. 13 So the nature of mineralogy, as I alluded Q. -- like that. 14 to earlier, is very systematic, right? So it's not the 14 A. 15 Okay. 15 same deposit. It's not the same deposit, but there's Q. Yeah. We're all caught up. 16 16 Caledonia. New Caledonia is a terrain that has a lot of A. Q. All right. Turning back to the reports 17 17 tale in it, that has a lot of nickel in it, and so, that are in front of you as Exhibits 1 or 2, are these 18 18 essentially, the geologic knowledge as a whole, reports complete, as far as you're concerned? 19 19 essentially, I'm relying on my educational base, my 20 A. To the best of my knowledge, they're 20 research base, things like that. So being aware of the 21 complete, based on what I was provided to review. 21 geology of talc and the mineralogy of talc, geochemistry 22 Q. And do you believe what's reflected in 22 of talc through global settings is critical to evaluate 23 those reports is accurate? 23 any subset of data relating to tale and associated 24 A. I believe that my opinions are accurate. 24 rocks. 25 25 The data as presented as findings are as they are Page 23 Page 25 BY MR. FROST: 1 interpreted by the company. So when you say -- again, 1 2 Q. I'll ask it a sort of different way. I'm unexperienced. 2 3 Q. 3 I'll break it down. You didn't do any testing here of Sure. 4 A. So when you say "accurate," I don't think 4 any product, right? 5 5 some of the report, some of the findings are I was not asked to do any testing. 6 6 scientifically accurate, based on the analytical Q. Okay. And you're not going to render any 7 7 methods. So... opinions about what causes disease, anything of that 8 8 nature? Q. Are you talking about some of your 9 9 findings? I'm asking sort of what your ultimate A. Correct. I am not a medical expert. I 10 opinions and your findings in this case. Do you believe 10 am not an environmental health expert. 11 Q. And you're not going to render any 11 that what you've opined to in this case is accurate in 12 opinions about what level of exposure to any particular 12 these reports? 13 13 metal or contaminate can cause disease? A. So is my opinion --14 14 Q. Yes. A. Again, I would defer for details to 15 15 A. -- accurate? environmental health experts and medical experts. 16 16 Q. You're not going to render any opinion Q. Yes. 17 Yes, I believe my opinion is accurate. 17 that use of Johnson & Johnson talcum powder causes Is there anything, before we get started 18 ovarian cancer, right? 18 Q. 19 A. So I'm sorry. I am not an expert in the 19 going through those opinions, that you want to change or 20 amend? 20 molecular mechanisms of carcinogenicity, if I said that 21 21 correct. I don't know. I'm not a medical person. So, A. No. 22 22 And is it fair to say that, effectively, 23 Q. All right. Looking at Exhibit 2, which 23 the opinions you're rendering here are limited to review is the addendum report, why did you draft this addendum? 24 24 of the geologic deposits utilized by Johnson & Johnson 25 25 and Imerys to create talcum powder? A. New materials became available.

' (Pages 22 to 25)

Page 28 Page 26 Q. When were you asked to draft the 1 1 A. I might have been confused with the Longo 2 addendum? 2 title. It says, "Analysis of Johnson & Johnson's 3 3 A. I think when Longo had his supplemental, historical product," so that might be the source of 4 and then I can't remember exactly when, but what really 4 5 caught my eye was this testing where they used 5 Q. Do you know if there are anything else or 6 6 .1 milligrams of a sample, and that's not representative any other changes that you'd like to make to either the 7 in any way, and then they use a silver membrane. 7 supplemental or the original report? 8 Q. I'll stop you here, because we'll be here 8 MS. SCOTT: Objection. Asked and 9 9 for a very long time. answered. 10 10 A. Okay. BY MR. FROST: Q. So the question was: When were you asked 11 11 Q. You can answer. 12 to draft the report? 12 Do I --Α. 13 A. I'm sorry. I'm sorry. You're right. I 13 Yeah. Do you know if there are any other got distracted. It was in January sometime. typos or anything else you'd want to correct in either 14 14 15 Q. And if you look at the second paragraph 15 of the two reports? 16 of the report, it states, "After I submitted my 16 A. I think there are a few typos in the preliminary report on November 16, 2018, I reviewed 17 17 report, or I'm, you know, I'm not perfect so... additional documents provided by Johnson & Johnson and 18 18 Q. We talked about, sort of, what's in the Imerys through the course of this litigation as well as 19 19 binders over there and in the tubs. We'll start with 20 documents produced after submitting my report." Is that 20 the binders, which are the documents. Did plaintiffs' 21 correct? 21 counsel provide all of the documents you relied on from 2.2 A. Yes. 22 both Imerys and Johnson & Johnson in this case? 23 Q. If you turn to pages 4 -- I'm sorry, page 23 MS. SCOTT: Objection. 2.4 5 of the report. You list the supplemental materials 24 I requested documents from the lawyers to and data considered? 25 25 review. Page 27 Page 29 BY MR. FROST: 1 A. 1 2 2 Am I also correct, you only list Imerys Q. What did you request from the lawyers? Q. 3 documents as the additional materials reviewed? 3 A. I requested any documents relating to the 4 4 mineralogy, the geology, things such as coring, x-ray 5 5 Okay. So you, in fact, did not actually diffraction, bulk chemical tests, electron microscopy, 6 review any additional Johnson & Johnson documents to 6 anything relating to, essentially, problems in 7 7 manufacturing or things that are related to how well create this addendum: is that correct? 8 8 audits, for example -- audits would be a good example of MS. SCOTT: Objection. 9 9 something that would be a third-party objective thing, A. I don't remember specifically. That may 10 be a typo. I think I -- I think it's likely that I 10 and I think there's, you know, there's an audit in here, 11 looked at some Johnson & Johnson documents but only 11 and any, any materials that would give sort of a big, 12 big picture of the situation at hand. 12 ended up focusing on these others. 13 BY MR. FROST: Q. Did you ever ask to have access to all 13 14 Q. Do you know what additional Johnson & 14 the documents so you could perform searches yourself? 15 Johnson documents --15 A. I don't remember. I remember I reviewed A. I don't. I don't remember. 16 a lot of, a lot of documents, but I don't remember if I 16 17 17 specifically asked that. I asked for things relating to Okay. And I take it because they didn't 18 18 what I just said. make it into the report, it's not something you're 19 Q. Did you ever run any searches against any 19 relying on? 2.0 MS. SCOTT: Objection. 20 documents to see if there's anything additional to what 21 A. I don't know. 21 was provided to you? MS. SCOTT: Object to form. You can 22 BY MR. FROST: 22 23 answer. 23 Q. Are there any other typos --So I think --2.4 A. What do you mean by "search"? So I 24 don't -- it was my understanding that -- so this is sort 25 Go ahead. 25 Q.

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Page 30 Page 32 1 of a closed system that, essentially, there's the 1 There's a lot of data, as I understand it. I don't 2 documents that the company produces. If I were to 2 think it's reasonable to review every document. 3 search for something else, I don't necessarily know if 3 Unfortunately, I'm one person, and if there's hundreds 4 that's from the company, right, or that's my thought. 4 of thousands of pages of documents, yeah, I don't think 5 5 So I did not -- I didn't do any additional searches. any single person can review those in a reasonable 6 6 BY MR. FROST: manner. 7 O. So you just relied on the documents as 7 BY MR. FROST: 8 provided to you by plaintiffs' counsel? 8 Q. So you don't think it's important, as an 9 A. Yes. 9 expert giving opinions about the overall mining and 10 10 MS. SCOTT: Objection. sampling and testing practices of Johnson & Johnson, to 11 A. For these, for the documents that were 11 have looked at or at least had access to the complete 12 12 set of documents? used 13 BY MR. FROST: 13 MS. SCOTT: Objection. 14 Q. And you have no way of knowing whether or 14 A. I think it's important to have a 15 not they've given you a complete set of every document, 15 representative set, and that representative -- you know, 16 correct, that hits the categories you asked for? 16 so -- you know, I didn't look at one document. I didn't 17 MS. SCOTT: Objection. 17 look at a few documents. You know, here's Hopkins' A. I think it's very representative of a 18 deposition, for example. There's all kinds of documents 18 19 set. But, I mean, as I understand, there's, you know, 19 in that. There's a lot. There is a lot, but it's my 20 an enormous amount of data, as there should be, and that 20 expert opinion that the amount of documents that I 21 is -- that would be expected, but, you know, I've 21 reviewed were adequate to arrive at my conclusions. 22 reviewed what was requested. 22 BY MR. FROST: 23 BY MR. FROST: 23 Q. And, again, that's solely based on the 24 Q. You reviewed what was provided, not what 24 set of documents that was compiled for you by 25 25 plaintiffs' counsel in this case given to you, which you was requested, correct? Page 31 Page 33 1 A. What was provided that I requested from 1 don't know is complete or not, correct? 2 2 them. MS. SCOTT: Objection. 3 Q. And you don't know whether or not -- you 3 A. I believe it is a representative set of 4 have no way of telling, sitting here, whether or not 4 documents, but I did rely on what they provided as 5 5 you've been given the complete record, correct? that's what I requested. I requested the documents, as 6 6 MS. SCOTT: Objection. Asked and I previously indicated in the answer. 7 7 BY MR. FROST: answered. You can answer if you can. 8 8 A. I think it's, I think it's very So you keep calling this a representative 9 9 set, but how can you make a determination if a set is representative. So I found examples where asbestos and 10 contaminate -- essentially where asbestos was 10 representative if you hadn't actually looked at or had access to the full set of documents? 11 undetected. You know, I looked at a wide variety of 11 12 MS. SCOTT: Objection. 12 things. 13 13 BY MR. FROST: A. It's my expert opinion that's a -- it's a 14 Q. But you would agree with me it's a 14 reasonable amount of documents. There's, you know --15 representative set as chosen to be given to you by your 15 BY MR. FROST: 16 16 Q. So you're basing the representativeness counsel? 17 MS. SCOTT: Objection. 17 off of the sheer size of the pile of documents on the 18 A. I think it's representative. 18 table? 19 19 MS. SCOTT: Objection. BY MR. FROST: 20 Q. You have no way of knowing what else 20 A. It's what I think is a representative 21 might exist, correct? 21 population of documents. I mean, there's -- there are a 22 22 MS. SCOTT: Objection. Asked and lot of documents, but I've -- and I've looked at a lot 23 23 answered. You can answer. of documents, and I've arrived at my professional 24 24 A. So, yeah, there could be more bad reports opinion based on the review of those documents. 25 25 out there. There could be more good reports out there.

	Page 34		Page 36
1	BY MR. FROST:	1	on page 5 of the shorter document.
2	Q. Would it change your opinion	2	Q. Okay. And these are all Longo expert
3	A. I can't ask a question, right?	3	reports, correct, Longo testing reports?
4	Q. No.	4	A. Yes.
5	A. Okay. All right. Yeah.	5	Q. Did you ever see any draft reports from
6	Q. Would it change your opinion if you knew	6	any other experts in these cases before you finished
7	that the set of documents provided to you by plaintiffs'	7	yours?
8	counsel only represents a portion of the story and there	8	A. No, I did not.
9	are hundreds and possibly thousands of additional	9	Q. Have you reviewed any other expert
10	documents that weren't provided to you by counsel?	10	reports given in any talcum powder cases other than this
11	MS. SCOTT: Objection.	11	one? You know, for example, were you provided any
12	A. So those documents would not negate the	12	expert reports from other cases against Johnson &
13	findings of the report. So, for example, if there was	13	Johnson?
14	an additional document that said talc was undetected, it	14	A. I'm trying to think about the other case
15	wouldn't negate the findings of the materials starting	15	for a moment. I don't remember.
16	on page 14.	16	Q. And have you reviewed any deposition or
17	BY MR. FROST:	17	trial transcripts in either preparation of your report
18	Q. Well, that's I'm glad you brought that	18	or to prepare for today's deposition?
19	up, because we'll get to those at the end of the	19	A. Yes.
20	deposition, because I think you were actually not	20	Q. What depositions have you reviewed?
21	provided some very important documents regarding that	21	A. Hopkins.
22	chart, but we'll turn back to that later when we start	22	Q. I guess I'll ask it a different way.
23	going through the report.	23	Other than the ones that are already reflected in your
24	A. Okay.	24	report, have you reviewed any depositions of any other
25	Q. But it wouldn't change your opinion at	25	experts in talcum powder cases, any other, you know,
	Page 35		Page 37
1	all to know that you were only given a selection of	1	Page 37 other than
1 2		1 2	other than A. Not that I remember.
	all to know that you were only given a selection of documents that supported plaintiffs' theories in this case?		other than
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2 3 4 5 6	all to know that you were only given a selection of documents that supported plaintiffs' theories in this case? MS. SCOTT: Objection. Asked and answered. A. No. My opinion remains unchanged.	2 3 4	other than A. Not that I remember. Q Dr. Downey, Dr. Hopkins? A. I don't remember. THE WITNESS: Can we take a little break? MR. FROST: Sure.
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	Page 40
2 but I'll move on All right 2 included them in your fir	provided to you and then you
2 but I'l hove on. All right. 2 included them in your in	nal opinion paper?
3 BY MR. FROST: 3 A. The chart?	
4 Q. Was there anything you asked plaintiffs' 4 MS. SCOTT: 0	Objection.
5 counsel to provide for you in this case to help prepare 5 BY MR. FROST:	
6 your reports that you were not given? 6 Q. That was a ba	nd question. Did you do any
7 A. I'm sorry. Can you just say that again? 7 editing of the charts that	were included in the final
8 Q. Sure. Was there anything you asked 8 report or did you just pu	t them in as provided by
9 plaintiffs' counsel to provide you in preparation of 9 counsel?	
your report that you were not given or you didn't 10 A. I directed ther	n to put them in.
	counsel ultimately put it
12 A. No. I believe they gave me 12 into the report the way it	s's structured?
representative materials of what I requested. I'm not 13 MS. SCOTT:	Objection.
sure, but I also have the materials that I rely on. So 14 A. I indicated the	e documents to be included
like the, you know, reviews in mineralogy books and 15 in the table, and they put	t it in the table.
things like that are in the reliance list, but I 16 BY MR. FROST:	
17 acquired those. They did not produce those. 17 Q. Is that true for	r all of the tables or did
Q. Okay. That was actually my next question 18 they produce did they	provide some of the content of
is that the stuff that's under your reliance material 19 the tables as well?	
20 list, is that things that you independently found 20 MS. SCOTT:	Objection.
21 yourself or that were provided to you by counsel? 21 A. I'd have to loo	k to refresh.
A. Yeah, yeah. Those are things I found. 22 BY MR. FROST:	
Q. Were any of the articles - 23 Q. That's okay.	Take your time.
24 A. Those 24 A. I'm already a	little tired. That table,
Q. I'm sorry? 25 I requested them to do.	And that table. Sorry. I'm
Page 39	Page 41
A. Those are things I found on my own. You 1 new at this, a little bit nervo	ous. So I directed them
A. Those are things I found on my own. You know, many of the books I some I just had on my new at this, a little bit nervo to put those tables in.	ous. So I directed them
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	Page 42		Page 44
1	make to reach your opinions?	1	role was to be objective. And I reviewed several
2	A. I'm just thinking. I I don't think	2	documents, you know, numerous, numerous, numerous
3	so. I I assume that documents that I reviewed were	3	documents objectively.
4	genuine, I guess, is maybe the best way to express that.	4	BY MR. FROST:
5	Q. And by "genuine," do you mean, you know,	5	Q. And did you know what role the counsel
6	part of the actual documents accompanied?	6	who engaged you had? Did you know that you were
7	A. They weren't altered in some way or	7	representing the plaintiffs versus the company?
8	Q. Okay. Yep.	8	A. I'm sorry. I missed a word.
9	A. Sometimes it was, you know, there were	9	Q. Did you know what role you were hired to
10	so, for example, the SEM document in this report and,	10	do?
11	actually, other things, the images were extremely	11	A. I knew they were on the side of the
12	degraded. It appeared that several documents had been	12	plaintiffs, yes.
13	photocopied, so one could supplant things. You know,	13	Q. And you knew that, ultimately, they were
14	again, I don't know, so that's why I say that I assume	14	looking for evidence of bad mining practices and
15	things are genuine.	15	opinions regarding inadequate sampling, things of that
16	Q. Okay. I think we're on the same page	16	nature?
17	about what "genuine" means. I just wanted to make sure.	17	MS. SCOTT: Objection.
18	A. Yeah.	18	A. I think they it's my opinion that they
19	Q. All right. And do you agree with me that	19	were looking for data to support their case in some way
20	in forming your opinions, it's important for you to keep	20	and also evaluate, potentially, if there was not a case.
21	a fair and open mind and look at the data in an	21	BY MR. FROST:
22	impartial way?	22	Q. Do you believe there's any additional
23	MS. SCOTT: Objection.	23	data you need to see in order to fully evaluate the
24	A. I believe it's important to look at data,	24	mining practices and the sampling practices by the two
25	yes.	25	companies in this case?
23	<i>j</i> 43.	23	companies in this case:
	Page 43	23	Page 45
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1 2	Page 43 BY MR. FROST:	1 2	Page 45 MS. SCOTT: Objection. Asked and
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Page 46 Page 48 1 A. No. 1 for the record, you don't know one way or the other 2 Q. And you're not an expert in regulatory 2 whether this mine --3 3 processes or mine regulations? I don't know the exact source. 4 A. No, I'm not an expert. 4 MS. SCOTT: Be careful you don't talk 5 5 Q. Before working on this report, have you over one another. 6 ever worked with talc before? 6 THE WITNESS: I'm sorry. MS. SCOTT: That's okay. 7 A. In my class work, my advisor was Steve 7 8 Guggenheim, and, of course, Warren Huff was my master's 8 THE WITNESS: I apologize. 9 advisor. So I had several clay mineralogy classes, and 9 BY MR. FROST: 10 10 we analyzed talc. And my Ph.D. advisor specifically, Q. And when you were at this mine in Darwin, you know, he would tell me, go look at this mineral with 11 11 I take it there were no mine operations continuing at 12 the TEM and x-ray, so I would know and be familiar with 12 the time you were visiting? 13 things, so but I don't have a specific thing on talc. 13 A. I believe it would just be alum land. 14 Q. So other than, you know, your use of it 14 But dealings and things were -- you know, I mean, things 15 in undergraduate and graduate and Ph.D. work, you know, 15 were there. 16 you've never studied talc, you've never published on 16 Q. And you can't tell me what type of talc talc, anything like that? 17 17 that was produced, whether it was industrial talc, 18 18 A. No. cosmetic talc or something else, right? 19 19 Q. Other than, you know, looking at it so A. Correct. I don't know. There's no 20 you'd be able to identify minerals, have you ever done 20 record. We found it in a guidebook, thought it'd be a 21 any examination or testing of talc? 21 good experience for the students. 22 A. Other than just looking at it for -- as 22 Q. And other than that visit, you've 23 far as learning the details of the mineral, no. 23 certainly never been to a talc mine that is currently 24 Q. Have you ever been to a talc mine? 24 undergoing operation, correct? 25 A. Yes, in California. There's this mine in 25 A. Correct. Page 47 Page 49 Darwin. So Darwin was this area in California on the 1 1 Q. Have you ever published anything 2 south side of Joshua Tree, and there's asbestos all over 2 regarding amphiboles? 3 the place, and the mine closed -- if I remember 3 A. I'm trying to think. My master's thesis 4 correctly, the mine closed, like, in the '50s. So it 4 had -- there were amphiboles in those bentonites. Aside 5 might have been, you know, the mine that was -- where 5 from that, I don't think so, or if I did, it was not a 6 things were sourced from when the Italian mines were not 6 major component. Not memorable. around or, you know, the World War II era. 7 7 Q. And other than what you recall in your 8 thesis, you've never done any testing of amphiboles or 8 But, yeah, I went there with Brian 9 Currie, and we do a field trip to Death Valley and the 9 anything of that nature? 10 surrounding areas all the time. So, yes, I've been to 10 A. I'm trying to -- well, I have nothing 11 at least that talc mine, and I've been on several --11 published, but I have ran across -- so I've done -- you 12 12 know, I have several. I have many projects with I've been on field trips to, like, metamorphic terrains 13 in New England states, but I can't remember if I saw 13 students, and some of those projects, for example, I 14 talc there or not. I have not physically been to the 14 think I -- there were minerals that I would identify in 15 Vermont mines, but, yes, I've been to a talc mine. 15 the TEM as amphibole for the coke formation, which was 16 Q. So you just made the statement that this 16 kind of unusual. So the coke formation is a local 17 mine in Darwin, you know, may have been during World War 17 bedrock. 18 II, where they -- I'm looking at the thing -- where they 18 Q. Okay. 19 19 A. So but nothing -- nothing in the source talc from. That's just a guess by you, correct? 20 A. Correct. As I said, it may have been. 20 peer-review literature, and I don't even know if it was But the region, as I understand thinking about that 21 21 mentioned in the abstract. I do remember occasionally 22 22 field trip, you know, I may be foggy, but there's other running across amphiboles. It's amazing what you'll 23 talc mines in the area. But, yeah, there was asbestos 23 find in the TEM. There's all kind of crazy stuff if you 24 in that 24 look for it. Yeah. 25 Q. Okay. But, again, I just want to clarify 25 Q. And I think we covered this before, but

	Page 50		Page 52
1	you've never done any testing of talcum powder or	1	Q. And you certainly have never written any
2	over-the-counter cosmetic products, right?	2	opinions regarding tale, tale mining practices, you
3	A. No.	3	know, et cetera, before getting engaged in this case and
4	Q. Before you were contacted by plaintiffs'	4	the other case from Waters & Kraus, right?
5	attorneys in it sounds like about December, give or	5	A. Correct.
6	take, of 2017, had you ever done any research regarding	6	MS. SCOTT: Objection.
7	talc, talcum powder, anything of that nature?	7	BY MR. FROST:
8	A. No.	8	Q. On your CV, I know you notice you have a
9	Q. And had you ever done any research prior	9	patent for something called asbestos containment
10	to being contacted about the mining practices at talc	10	composition.
11	mines or looking at the geological mine deposits?	11	A. Yes.
12	A. I'm sorry. A research on, on talc	12	Q. What is that?
13	mining?	13	A. It's a mixture of clay minerals.
14	Q. Exactly. Talc-mining practices.	14	Q. And what's the patent?
15	A. Specifically? No.	15	A. Basically, it's a mixture of kaolinite
16	Q. Okay. Well, what about the geology of	16	and montmorillonite, if I recall. Essentially, it's one
17	the specific you know, did you ever look at the	17	we produced but didn't really pursue. It was actually
18	specific geology of any talc mines prior to being	18	my brother-in-law thought it would be a good idea. So
19	engaged in this case?	19	but, yeah.
20	A. I took a metamorphic course, and during	20	Q. So it's patented but not in production or
21	my master's, under Craig Dietsch, I remember we talked	21	use?
22	about talc in that class. So Craig is a metamorphic	22	A. Right. And I don't regard patents as
23	petrologist. So and then, you know, my I've read	23	peer-review literature. Those are that's a
24	papers. I mean, all through my Ph.D., my advisor	24	different.
25	hammered that I should read everything around the topic.	25	Q. Yeah. I actually agree with you on that
	Page 51		Page 53
1	Page 51 So but I've not I haven't mapped a talc deposit,	1	Page 53 one.
1 2		1 2	
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14 (Pages 50 to 53)

	Page 54		Page 56
1	there's not an additional opinion given. I think the	1	but I had read those during my dissertation time as
2	report states that it supports the opinions given in the	2	well.
3	preliminary report; is that correct?	3	Q. Did you go
4	A. Let me look.	4	A. So I was I'm sorry.
5	Q. That's Exhibit 2. I believe the quote is	5	Q. I'm sorry. I didn't mean to cut you off.
6	that "it supports and further enhances my opinions	6	I thought you were done.
7	outlined in the original report"?	7	A. So I'm familiar with a broad range of
8	A. Correct, yeah.	8	literature.
9	Q. So you agree with me there are no new	9	Q. Did you have to go out and do any
10	opinions in the addendum report. It's just additional	10	searches for new literature that you didn't already have
11	support for the five opinions you plan to render in this	11	in your possession?
12	case?	12	A. We got some materials from or I got
13	A. There's no new opinions. The silver	13	some materials from the library, and there were some
14	there's new data, but, yeah, there's no new opinions.	14	things like Gy were things I knew of and Finkelstein
15	It's the addendum supports the first.	15	were things I knew of that had been discussed either in
16	Q. And I take it you haven't published this	16	my classes or I ran across it previously that I had to
17	report or published these opinions anywhere, have you?	17	go re-get.
18	A. Absolutely not.	18	Q. Did you spend any time doing any, what
19	Q. Do you intend to publish them?	19	I'll call sort of new or independent research in
20	A. No.	20	addition to things you've already done in the past to
21	Q. Do you intend to publish any of the	21	prepare your report?
22	research you've done with relation to this report?	22	A. I don't understand the question. In the
23	A. No.	23	sense that?
24	Q. Did anybody help you do any of the, the	24	Q. For example, did you spend any time in a
25	research underlying the report?	25	research library trying to find all the articles about
	Page 55		Page 57
			rage 37
1	A. No.	1	
1 2		1 2	the different geological deposits at issue in this case?
	A. No.		the different geological deposits at issue in this case?
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	Page 58		Page 60
1	details and methods, you know, everyone's afraid that	1	regarded that metamorphic rock, metamorphic terrains
2	they're going to get ripped off from someone else. So	2	take a long time to form. So pressure temperature
3	peer-review literature is a sort of common ground that	3	loops, and this is well documented in the geologic
4	everyone uses.	4	literature. You know, it's in the classwork that I've
5	Q. I guess I'll ask the question a different	5	had.
6	way.	6	Q. Would you agree with me that some talc
7	A. Okay.	7	deposits form you know, the formation of talc
8	Q. Because it was about, sort of, the	8	deposits, some take a lot longer, some take a lot
9	standard for opinions. Do you believe that the standard	9	shorter, depending upon the characteristics of the
10	of review for an opinion, you know, such as in the	10	formation?
11	expert report you've given in this case, is the same or	11	MS. SCOTT: Objection.
12	different than the standard review if you were trying to	12	A. I'm not gonna speculate without data.
13	publish a peer-reviewed article on the same subject?	13	But, you know, generally it's accepted that talc
14	MS. SCOTT: I'm going to object and ask	14	deposits take several millions of years to form.
15	him not to speculate on your initial question in	15	BY MR. FROST:
16	any legal standards.	16	Q. What's your basis of that opinion?
17	A. Yeah. I am as I I'm not familiar	17	A. My classwork.
18	with legal review.	18	Q. Can you tell me what factors affect the
19	BY MS. SCOTT:	19	formation of talc, what the controlling factors of
20	Q. Do you believe the when you were	20	metamorphism would be?
21	writing the report, do you believe that the opinions in	21	A. Heat and pressure and fluids.
22	this report, you know, would meet or be sufficient for	22	Q. Would you agree with me that not all talc
23	peer-review publication?	23	is formed with the exact same amount of heat, pressure
24	MS. SCOTT: Objection.	24	and fluids in the mix?
25	A. I don't want I'm not an editor. I	25	A. There is variability.
	Page 59		Page 61
1	Page 59 don't want to speculate.	1	Page 61 Q. Would you agree with me that not all talc
1 2		1 2	
	don't want to speculate.		Q. Would you agree with me that not all talc
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	don't want to speculate. BY MS. SCOTT: Q. That's fine. Turning in to your report. Start at page 2. So you state that "Talc is a mineral derived almost exclusively from metamorphic deposits," right? A. Correct. Q. You also agree with me that not all talc forms through a metamorphic process, right? A. You can have soils developed on talc deposits, so, yes. Q. Yes, you can have talc form A. Developed on. And then you can also have potential hydrothermal alteration at mid-ocean ridges, which is also a metamorphic. It's hydrothermal alteration. Q. You also state further down that the process of metamorphism occurs over several tens of millions of years. Is that always the case? A. Generally, that's the case, you know, in rocks where you have talc occurring, yes. Q. Do you think that's true for all talc	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Would you agree with me that not all talc deposits are geologically the same? MS. SCOTT: Objection. A. I don't think any every rock and every geologic deposit has its own history, so one of the big things that's come out in mineralogy is mineralogical evolution. And Bob Hazen's paper talks about this, and there's been several successive papers. So based on that, you know, every deposit has individual characteristics, but there's general sort of groups or classes. BY MR. FROST: Q. And you'd agree with me that not every mined deposit of talc is the same either, correct? A. It all depends on what you mean by "the same." You know, you can have things that are not the same but very similar. Q. Sure. But not every mined deposit is going to be exactly the same chemically, geologically. They're all going to form in different ways at different times. Would you agree with that? A. Unless they are geologically related. So

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onology, right? So, you know, age range errors olus or minus 10 million years. So if you have a metamorphic deposit that is talc and the age is minus 20 million years, you know, based on the e data, that's a reasonable, you know, metric value. Sure. And based upon when it formed, how ed, the pressures, the temperatures, whether or e's variability of that would effect what other is might be with the talc, right? Correct. And also depending what surrounding rock to the rock that changed to talc would also, ow, affect what might be on the margins of a talc for example? I'm sorry. The last part of your is Sure. So depending what the surrounding as to the rock that metamorphosed to talc would ect what you would see in the black wall, for	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes, it does. Q. And that's effectively what we're talking about here, is that it's the other minerals that were around during the formation of the talc. They may be in the deposit, they may not, and they may be different depending on deposits, right? MS. SCOTT: Objection. A. I'm sorry. Can you BY MS. SCOTT: Q. Sure. So you agree with me that not every talc deposit is going to have the same exact associated other minerals with talc, right? MS. SCOTT: Objection. A. It depends, because, I mean, you have so, in mineralogy, we have a term called "perigenesis." So essentially, there are these common minerals are associated with each other. So out of context, for example, galena and sphalerite are very commonly
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Sure. So depending what the surrounding as to the rock that metamorphosed to talc would	17 18	associated with each other. So out of context, for
Sure. So depending what the surrounding as to the rock that metamorphosed to talc would	18	
as to the rock that metamorphosed to talc would		example, galena and sphalerite are very commonly
		and the state of t
ect what you would see in the black wall for		associated with each other.
	20	So, essentially, I think a more correct
e, what you see at the boundaries for the talc,	21 22	way of saying things is that chrysotile asbestos and
It can, if there's a reaction or not, so	23	talc are commonly associated with each other. So
It can, if there's a reaction or not, so endent upon the situation.	24	perhaps not all talc deposits have the same mineral assemblage, but many of them do have very similar
	25	mineral assemblages, and that's even when the chemistry
That's what I was going to stay. It's	23	nimeral assentitiages, and that's even when the chemistry
Page 63		Page 65
and it changes from deposit to deposit? You	1	varies.
ook specifically?	2	BY MS. SCOTT:
That's why every deposit should be	3	Q. And that's what I'm getting to, is just
d with an appropriate core density and high	4	because some minerals are associated with talc doesn't
density.	5	mean that other mineral is going to be in every single
So in order to fully understand what's in	6	talc deposit in the world, right?
lar talc deposit, you really do need to know	7	MS. SCOTT: Objection.
		A. Correct, but that doesn't mean that's not
	1	very common, either.
		BY MR. FROST:
Yes.		Q. Sure. But we're talking about you
At what level or what understanding, what		agree with my statement that not every single talc deposit in the world will have all of the same exact
The selection Later 18 N	1	accessory minerals associated with it, right?
	1	MS. SCOTT: Objection. Calls for
		speculation.
		A. Yeah. I don't want to speculate on that.
•	18	BY MR. FROST:
	19	Q. It's not speculation.
9	20	A. Because, you know, there's
re, correct?	21	Q. Isn't it science?
re, correct? Yes. One should evaluate what is in the	22	A. You know, I go back to the New Caledonia
re, correct? Yes. One should evaluate what is in the nd what is adjacent to the deposit.		example. It has talc, but not every talc deposit has
re, correct? Yes. One should evaluate what is in the nd what is adjacent to the deposit. You also state on page 2, on the next	23	
re, correct? Yes. One should evaluate what is in the nd what is adjacent to the deposit.	24	New Caledonia assemblages.
	Yes. At what level or what understanding, what To understand what specifically, you associated with that talc, what other minerals associated with the talc, you really have to be specific deposit, how it was formed, what stituent minerals were around it, things of tre, correct? Yes. One should evaluate what is in the and what is adjacent to the deposit.	things like that, right? I'm sorry. To understand a talc deposit? Yes. At what level or what understanding, what To understand what specifically, you associated with that talc, what other minerals associated with the talc, you really have to be specific deposit, how it was formed, what astituent minerals were around it, things of tre, correct? Yes. One should evaluate what is in the and what is adjacent to the deposit. You also state on page 2, on the next the down, that "Talc can have, and commonly does"

17 (Pages 62 to 65)

Page 66 Page 68 1 be yes, right, that not every single talc deposit has 1 chrysotile. 2 the exact same accessory minerals associated with it? 2 BY MR. FROST: 3 3 MS. SCOTT: Objection. So as an expert in geology, you can't 4 4 A. Correct. tell me as a fact, sitting here today, that there are 5 BY MR. FROST: 5 some talc deposits that are exist in the world that are 6 6 Q. And you also agree with me that -- I'm comprised of more talc than others? 7 going to use the word, you know, "pure," to mean more 7 MS. SCOTT: Objection. Asked and 8 8 talc, but there are some talc deposits that are more answered. 9 pure than other talc deposits. There's some talc 9 A. I think I answered that, yeah. There's 10 deposits that are comprised of more talc than others, 10 some that have a higher percentage of talc, but there's 11 11 correct? impurities that also occur. So, you know, if you have 12 MS. SCOTT: Objection. 12 10 percent asbestos in one mine and 2 percent asbestos 13 A. It's -- so it's speculative. I don't 13 in one and 30 percent in another, so, yes, that's, 14 know exactly what you mean by "pure." So it's been 14 that's possible. 15 known, for example, that at the atomic level, you can 15 BY MR. FROST: 16 16 have intergrowths with chrysotile with talc. So, yeah. Q. I don't think you're understanding my 17 17 I'm really not quite sure how to answer that question. question. More fundamentally, don't you agree with me 18 BY MR. FROST: 18 some talc deposits are only made up of 20 percent talc 19 Q. So you have no opinion that if I were to 19 and are predominantly other minerals, as were other talc 20 go find a talc deposit over here and find one over here, 20 deposits are made up of, for example, 50 or 60 percent 21 that one might have -- be comprised of more talc or have 21 talc? 22 a more pure metamorphism of the talc than another? 22 A. So I'm unclear. Are you talking about 23 MS. SCOTT: Objection. 23 talc deposits or talc ores? 24 24 Q. I'm talking about talc deposits, A. Without any priority knowledge -- yeah. 25 25 I would want to -- to answer that question correctly, generally, geological formations of talc. Page 67 Page 69 you need to analyze each individual deposit. A. So, yeah. Talc can occur at a variable 1 1 2 2 BY MR. FROST: concentration in metamorphic rocks. 3 Q. As an expert in geology, you can't tell 3 Q. You will also agree with me that some 4 me that there are some deposits of talc in the world 4 talc deposits can be larger than others, right, 5 5 that are more pure than others, that are more comprised geologically? 6 of talc than others? 6 A. Yes. 7 MS. SCOTT: Objection. 7 You'll agree with me that talc is sort of 8 8 A. One would expect -- you know, so all over the place and what are the mine deposits are 9 materials are variable in percentages, but I don't think 9 sort of unique? 10 it's reasonable just to declare -- I mean, it seems like 10 A. No. Talc is not all over the place. 11 a -- perhaps I'm misinterpreting it, but it seems like a 11 Metamorphic rocks comprise approximately 10 percent or arbitrary setup or question. So the -- one cannot -so of rocks exposed at the surface of the earth, and so 12 12 13 what I'm trying to say is one cannot predict the exact 13 talc, by that definition alone, talc is not all over the 14 impurities in any given deposit. 14 place. 15 There are general -- using the 15 Q. You'd agree with me talc can be found 16 peer-reviewed literature and well documented, you know, 16 from Quebec to Georgia, for example? 17 work of archives going back, for example, Hess, 1933, 17 A. I think that's a very general in, perhaps 18 you know, it is common and reasonable to know that 18 in consumers' homes, in baby powder bottles. The --19 19 Q. You don't think there are talc formations there's some, or very, very likely, asbestos materials 2.0 are associated with talc. 20 found in the Appalachian Mountains from Quebec through 21 And so it is reasonable that -- it's a 21 Georgia? 22 reasonable, scientifically reasonable interpretation 22 A. There --23 MS. SCOTT: Objection. 2.3 that one would expect impurities of many types, but they 2.4 2.4 A. There are other talc deposits in North may not be the same. So we have examples where there's 25 tremolite, and there's examples where there's 25 America, yes. They're not restricted to Vermont, but

1	Page 70		Page 72
	talc deposits do occur.	1	but you can have minerals that have fibrous habits that
2	BY MR. FROST:	2	are not microscopic.
3	Q. And talc deposits occur in places like	3	So an example would be millerite, which
4	Alabama, Texas, Minnesota, California? You'll agree	4	is a nickel sulfide that, essentially, you have these
5	with me on that as well, right?	5	very long black fibers, and it's very commonly that's
6	A. I remember some of the specifics in the	6	what it occurs as. And the fiber fibrous textures,
7	Southern states. I know they occur in California.	7	you know, essentially, all morphologies are driven by
8	Q. Will you agree with me that some talc	8	the unit cell and, essentially, bonding strengths and
9	deposits are larger than others?	9	defect densities and things like that. So fibers are
10	MS. SCOTT: Objection.	10	common in asbestiform materials.
11	 Yes. You can have small talc deposits. 	11	Q. Is a fibrous habit different than the
12	You can have big talc deposits. You can have they're	12	asbestiform habit?
13	just like granites. You can have small granites and	13	A. So a fiber would be more of a subset of
14	large granites. You can have you know, a variation	14	asbestiform. So if I had a chunk of chrysotile, that
15	in size and scale and complexity is a very common trait	15	would be asbestiform, and it would be composed of
16	in geologic terrains.	16	fibers.
17	BY MR. FROST:	17	Q. So fibers are a smaller subset of
18	Q. You'd agree with me because of variations	18	asbestiform?
19	in size, scale, complexity, accessory minerals, et	19	A. Generally.
20	cetera, you can't make general statements about talc	20	Q. Can you define for me what "asbestiform
21	deposits. Not every talc deposit's the same, right?	21	habit" means? Are you able to define what "asbestiform
22	MS. SCOTT: Objection.	22	habit" means without referencing your report?
23	A. To some level, I think one can. You can	23	A. Asbestiform basically is
24	make general statements about rock types, what is common	24	Q. Here, could we do it this way? Without
25	or likely to occur. If we were able to precisely	25	looking at your report, can you define for me what
	Page 71		Page 73
1	predict just by thought the distribution of ore, we	1	"asbestiform" means?
2	would have no problem finding platinum and gold and	2	MS. SCOTT: Objection. If he needs to
3	those kinds of things, right? So does that answer the	3	look at his report, he can look at his report.
4	question?	4	MR. FROST: Well, I just want to see if
5	Q. Sure.	5	he can do it without looking at the report.
6	THE WITNESS: Can we take a break?	6	BY MR. FROST:
7	MR. FROST: Sure.	7	Q. But if you need to look at your report,
8	VIDEOGRAPHER: We are now going off	8	just let me know that you have to look at your report to
9	record, and the time is 10:48.	9	define it.
10	(A recess was taken from 10:48 to 11:03.)	10	MS. SCOTT: Objection.
11	VIDEOGRAPHER: We are now back on record,	11	A. Asbestiform essentially is a texture that
12	and the time is 11:03.	12	is the particles are elongated. They have a high
13	BY MR. FROST:	13	general aspect ratio.
14	Q. Would you describe for me what a "fibrous	14	BY MR. FROST:
15	habit" means?	15	Q. So asbestiform is purely a texture?
16	A. In general, it is an elongated particle	16	MS. O'DELL: Object to the form.
	that and the so on page 4, I indicate there's	17	A. A texture with respect to what?
17	length or width ratios for fibers which have fibrous	18	BY MR. FROST:
17 18		19	Q. Well, that's what you just said. That's
	nabit of three to one, and then NIOSH is rive to one.		, ,
18 19	habit of three to one, and then NIOSH is five to one. BY MR. FROST:		what I'm trying to figure out. You used the word
18 19 20	BY MR. FROST:	20	what I'm trying to figure out. You used the word "texture." You defined asbestiform as a texture?
18 19 20 21	BY MR. FROST: Q. Okay. Can you define for me what a	20 21	"texture." You defined asbestiform as a texture?
18 19 20 21 22	BY MR. FROST: Q. Okay. Can you define for me what a "fibrous habit" means? Does it purely mean dimensions	20 21 22	"texture." You defined asbestiform as a texture? A. So texture is a general term that means
18 19 20 21	BY MR. FROST: Q. Okay. Can you define for me what a	20 21	"texture." You defined asbestiform as a texture?

	Page 74		Page 76
1	or single phase.	1	BY MR. FROST:
2	Q. What do you mean by that, the "single	2	Q. If you look at page 4 of your report,
3	phase"?	3	second paragraph, under "Asbestos," you write that
4	A. Single phase, phase is like a phase is	4	"Asbestiform refers to a mineral that has grown into a
5	a thermodynamic term. So, in theory, it is something	5	fibrous aggregate of long, thin flexible crystals that
6	that is separable from a system. So you can have	6	readily separate into smaller crystals of a" smaller
7	something like chrysocolla that is grown around and fill	7	"length-to-width aspect ratio." You agree with me
8	some other mineral, where you can have glass. Glass is	8	that's very different than what you just told me, right?
9	a separate phase. Or it can also be a mineral, so it's	9	MS. SCOTT: Objection. You just misread
10	more of just a thermodynamic term.	10	something. It says, "smaller crystals of a
11	Q. Do you agree with me that in order for a	11	similar length."
12	mineral to be asbestiform, it has to grow in an	12	MR. FROST: Oh, I apologize.
13	asbestiform habit?	13	MS. SCOTT: No problem.
14	MS. SCOTT: Objection.	14	A. So I think that's a correct statement.
15	A. No. So tale is mechanically soft, and I	15	BY MR. FROST:
16	can certainly imagine scenarios where you have	16	Q. Which one, the one in your report or the
17	tremolite, large tremolite crystals that exist in a talc	17	one you just gave me?
18	schist, and that talc schist then experiences continued	18	MS. SCOTT: Objection.
19	dynamic metamorphism, so things move, and that talc	19	A. Both.
20	crystal can be other talc or, I'm sorry, the	20	BY MR. FROST:
21	tremolite crystal in the talc can then hit other talc or	21	Q. You think you can, a mineral can both
22	other tremolite crystals and essentially abrade and	22	grow as you have here in a fibrous aggregate of long or
23	grind and be broken down into smaller elongate, elongate	23	you can create it?
24	mineral particles which would be fibrous, and that would	24	A. It can it can result from the process.
25	be one way of producing that texture.	25	So in the broad context, if you are crushing or milling
	Page 75		Page 77
1	Page 75 BY MR. FROST:	1	Page 77 a tale ore and there's tremolite in it, basically, you
1 2	_	1 2	
	BY MR. FROST:	_	a talc ore and there's tremolite in it, basically, you
2	BY MR. FROST: Q. Is that different than growing in an	2	a tale ore and there's tremolite in it, basically, you can process that, it's my expert opinion, that you can
2 3	BY MR. FROST: Q. Is that different than growing in an asbestiform habit? In order to be asbestiform, do you have to grow in the asbestiform habit? MS. SCOTT: Objection.	3	a tale ore and there's tremolite in it, basically, you can process that, it's my expert opinion, that you can process that and result in producing asbestiform
2 3 4	BY MR. FROST: Q. Is that different than growing in an asbestiform habit? In order to be asbestiform, do you have to grow in the asbestiform habit?	2 3 4	a talc ore and there's tremolite in it, basically, you can process that, it's my expert opinion, that you can process that and result in producing asbestiform materials or fibers, elongated mineral particles.
2 3 4 5	BY MR. FROST: Q. Is that different than growing in an asbestiform habit? In order to be asbestiform, do you have to grow in the asbestiform habit? MS. SCOTT: Objection.	2 3 4 5	a talc ore and there's tremolite in it, basically, you can process that, it's my expert opinion, that you can process that and result in producing asbestiform materials or fibers, elongated mineral particles. Q. So are all elongated mineral particles
2 3 4 5 6	BY MR. FROST: Q. Is that different than growing in an asbestiform habit? In order to be asbestiform, do you have to grow in the asbestiform habit? MS. SCOTT: Objection. A. There's not necessarily mineral growth would not necessarily be a part of that. BY MR. FROST:	2 3 4 5 6 7 8	a talc ore and there's tremolite in it, basically, you can process that, it's my expert opinion, that you can process that and result in producing asbestiform materials or fibers, elongated mineral particles. Q. So are all elongated mineral particles asbestiform?
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1	And, essentially, the nature of bonds in	1	particular particle is asbestiform or a cleavage
2	that mineral will be weaker along certain planes for	2	fragment, and your answer to that was cleavage fragments
3	certain minerals such as amphiboles. So basically what	3	implies that through some mechanism process, it's been
4	happens is when you apply stress, it doesn't matter if	4	developed. That's what I'm asking. What is this
5	that is a five-foot piece of tremolite or if it is a	5	mechanism process? Is this an outside force? Are you
6	micron piece of tremolite. Essentially, it's absolutely	6	talking about processing
7	reasonable that if you apply stress and you break that,	7	A. Mechanical.
8	it will break into smaller pieces, and you can end up	8	Q. You're talking about mechanics. So if a
9	with essentially, the hat or the shape is the same.	9	fragment cleaves off because a mechanical force is
LO	Or, essentially, hat or shape is driven by those	10	applied to it, it's a cleavage fragment? If it occurs,
L1	crystallographic parameters.	11	if it naturally cleaves, then it's asbestiform?
L2	BY MR. FROST:	12	MS. SCOTT: Objection.
L3	Q. All right. Do you know what a cleavage	13	A. You can have, as I mentioned before, you
L4	fragment is?	14	can have the situations totally reasonable, both in the
L5	A. Yeah. It's essentially a fragment that	15	processing and then the natural geologic process, where
L6	has broken off.	16	you can have a tremolite crystal, for example, that
L7	Q. And you're telling me that cleavage	17	essentially is deformed through metamorphic processes.
L8	fragments can be asbestiform that have broken off as	18	You can have multiple directions of force, and so,
L9	prismatic crystals?	19	basically, you can end up with particles that are
20	A. I think they can, so they can. They can	20	asbestiform as a result of that, and then you can grind,
21	meet the crystallographic requirements.	21	crush, process things that also have an asbestiform
22	Q. Is your opinion generally accepted by the	22	texture.
23	scientific community?	23	BY MR. FROST:
24	A. I have not presented or published on	24	Q. Are there any standards you're relying on
25	that, but I think, based on my experience and what I	25	to make this determination of asbestiform versus
	Page 79		Page 81
1	know about crystal chemistry of minerals, that is a	1	cleavage fragment?
2	reasonable interpretation.	2	MS. SCOTT: Objection.
3	Q. Okay. So your interpretation is that a	3	A. I'm using the terminology as described in
4	particle can become asbestiform, even if it didn't form	4	was an in analogue aloga that I to als from Dr. John Grasson in
5	naturally in an asbestiform habit by this cleaving down		my mineralogy class that I took from Dr. John Grover in
6		5	1991, and he he grew some of the artificial,
0	to a particular particle size? Is that a fair summary?		
7		5	1991, and he he grew some of the artificial,
	to a particular particle size? Is that a fair summary?	5 6	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s.
7	to a particular particle size? Is that a fair summary? MS. O'DELL: Object to the form.	5 6 7	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST:
7 8	to a particular particle size? Is that a fair summary? MS. O'DELL: Object to the form. A. You, through processing, you can modify	5 6 7 8	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST: Q. Okay. Other than this class you had with
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7 8 9 L0 L1 L2 L3	MS. O'DELL: Object to the form. A. You, through processing, you can modify many things. BY MR. FROST: Q. So can you tell me what particular properties will determine whether or not a particle was a cleavage fragment versus an asbestiform fragment? MS. SCOTT: Objection. A. Cleavage fragment implies that it has,	5 6 7 8 9 10 11 12 13 14	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST: Q. Okay. Other than this class you had with Dr. John Grover, you can't name me another source, another peer-reviewed literature, a scientific paper that supports your theory? MS. SCOTT: Objection to form. MR. LAPINSKI: I was going to say, make sure you let him ask the full question before you start to answer.
7 8 9 L0 L1 L2 L3 L4	to a particular particle size? Is that a fair summary? MS. O'DELL: Object to the form. A. You, through processing, you can modify many things. BY MR. FROST: Q. So can you tell me what particular properties will determine whether or not a particle was a cleavage fragment versus an asbestiform fragment? MS. SCOTT: Objection. A. Cleavage fragment implies that it has, through some mechanical process, it's been developed.	5 6 7 8 9 10 11 12 13 14 15	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST: Q. Okay. Other than this class you had with Dr. John Grover, you can't name me another source, another peer-reviewed literature, a scientific paper that supports your theory? MS. SCOTT: Objection to form. MR. LAPINSKI: I was going to say, make sure you let him ask the full question before
7 8 9 L0 L1 L2 L3 L4 L5 L6	to a particular particle size? Is that a fair summary? MS. O'DELL: Object to the form. A. You, through processing, you can modify many things. BY MR. FROST: Q. So can you tell me what particular properties will determine whether or not a particle was a cleavage fragment versus an asbestiform fragment? MS. SCOTT: Objection. A. Cleavage fragment implies that it has, through some mechanical process, it's been developed. BY MR. FROST:	5 6 7 8 9 10 11 12 13 14 15 16 17	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST: Q. Okay. Other than this class you had with Dr. John Grover, you can't name me another source, another peer-reviewed literature, a scientific paper that supports your theory? MS. SCOTT: Objection to form. MR. LAPINSKI: I was going to say, make sure you let him ask the full question before you start to answer. THE WITNESS: Okay. I'm sorry. BY MR. FROST:
7 8 9 L0 L1 L2 L3 L4 L5 L6 L7	to a particular particle size? Is that a fair summary? MS. O'DELL: Object to the form. A. You, through processing, you can modify many things. BY MR. FROST: Q. So can you tell me what particular properties will determine whether or not a particle was a cleavage fragment versus an asbestiform fragment? MS. SCOTT: Objection. A. Cleavage fragment implies that it has, through some mechanical process, it's been developed. BY MR. FROST: Q. So a cleavage fragment purely refers to	5 6 7 8 9 10 11 12 13 14 15 16 17	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST: Q. Okay. Other than this class you had with Dr. John Grover, you can't name me another source, another peer-reviewed literature, a scientific paper that supports your theory? MS. SCOTT: Objection to form. MR. LAPINSKI: I was going to say, make sure you let him ask the full question before you start to answer. THE WITNESS: Okay. I'm sorry. BY MR. FROST: Q. Do you want me to reask it?
7 8 9 LO L1 L2 L3 L4 L5 L6 L7 L8	to a particular particle size? Is that a fair summary? MS. O'DELL: Object to the form. A. You, through processing, you can modify many things. BY MR. FROST: Q. So can you tell me what particular properties will determine whether or not a particle was a cleavage fragment versus an asbestiform fragment? MS. SCOTT: Objection. A. Cleavage fragment implies that it has, through some mechanical process, it's been developed. BY MR. FROST: Q. So a cleavage fragment purely refers to some outside mechanical process?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST: Q. Okay. Other than this class you had with Dr. John Grover, you can't name me another source, another peer-reviewed literature, a scientific paper that supports your theory? MS. SCOTT: Objection to form. MR. LAPINSKI: I was going to say, make sure you let him ask the full question before you start to answer. THE WITNESS: Okay. I'm sorry. BY MR. FROST: Q. Do you want me to reask it? A. The terms were used in my graduate school
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7 8 9 LO L1 L2 L3 L4 L5 L6 L7 L8 L9	to a particular particle size? Is that a fair summary? MS. O'DELL: Object to the form. A. You, through processing, you can modify many things. BY MR. FROST: Q. So can you tell me what particular properties will determine whether or not a particle was a cleavage fragment versus an asbestiform fragment? MS. SCOTT: Objection. A. Cleavage fragment implies that it has, through some mechanical process, it's been developed. BY MR. FROST: Q. So a cleavage fragment purely refers to some outside mechanical process? MS. SCOTT: Objection. A. What do you mean by "purely"?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	1991, and he he grew some of the artificial, synthetic fibers for the rat tests in the '70s. BY MR. FROST: Q. Okay. Other than this class you had with Dr. John Grover, you can't name me another source, another peer-reviewed literature, a scientific paper that supports your theory? MS. SCOTT: Objection to form. MR. LAPINSKI: I was going to say, make sure you let him ask the full question before you start to answer. THE WITNESS: Okay. I'm sorry. BY MR. FROST: Q. Do you want me to reask it? A. The terms were used in my graduate school classes as well. I think that yeah. Q. And your opinion is whether or not this
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	Page 82		Page 84
1	A. So crystallographically, in a way, the	1	high aspect ratio, (length/diameter ratio), increased
2	term's not necessarily extremely relevant. It is the	2	mechanical properties, flexibility and durability.
3	physicality of a particle is such that, you know, it's	3	"In the asbestiform morphology, the
4	driven by, essentially, the science. So you can crush,	4	crystals grew by forming long and filiform fibers.
5	you can grind something, and you can end up with an	5	These fibers are found in bundles that can easily
6	asbestiform particle.	6	separate into smaller fibers (fibrals), which, during
7	MR. FROST: Let me look at some articles.	7	processes, retain their surface and activity properties.
8	I'm going to mark this as I believe, we're at	8	"OSHA (1992) specifies that the
9	Exhibit 3.	9	asbestiform criterion does not depend on the crystalline
10	(Exhibit 3 was marked for	10	structure but on how the crystal grows or its
11	identification.)	11	crystalline formation. When pressure is applied to" an
12	BY MR. FROST:	12	asbestiform "fiber, it will bend rather than break."
13	Q. Do you recognize this paper?	13	Did I read that correctly?
14	A. No, I do not. I have not seen this	14	MS. SCOTT: With one correction.
15	report.	15	MR. FROST: I did miss one?
16	Q. This is not the IRSST 2010 Montreal paper	16	MS. SCOTT: Asbestos fiber, not
17	you reference in your report?	17	asbestiform fiber.
18	A. I don't remember.	18	MR. FROST: Oh, I apologize.
19	Q. Look at your let me see. I want to	19	BY MR. FROST:
20	find a place that you reference this. If you look at	20	Q. Did I read that other than that, did I
21	Footnote 5 on page 4.	21	read this correctly?
22	A. I don't see a Footnote 5 on page 4.	22	A. Okay. Yeah.
23	Q. Of your report.	23	Q. Do you agree with me this definition is
24	MS. SCOTT: Of your report.	24	very different than the definition you've given me?
25	A. Oh, I'm sorry. Okay. Yeah.	25	MS. SCOTT: Objection.
25	A. Oh, I'm sorry. Okay. Yeah. Page 83	25	MS. SCOTT: Objection. Page 85
25		25	Page 85
	Page 83 BY MR. FROST:		Page 85 A. Not necessarily. It is more specific,
1	Page 83 BY MR. FROST: Q. Do you agree that this is the same report	1	Page 85
1 2	Page 83 BY MR. FROST:	1 2	Page 85 A. Not necessarily. It is more specific, but it's, you know, generally in line.
1 2 3	Page 83 BY MR. FROST: Q. Do you agree that this is the same report that you have referenced in Footnote 5 on your paper?	1 2 3	Page 85 A. Not necessarily. It is more specific, but it's, you know, generally in line. BY MR. FROST:
1 2 3 4	Page 83 BY MR. FROST: Q. Do you agree that this is the same report that you have referenced in Footnote 5 on your paper? A. Yeah.	1 2 3 4	Page 85 A. Not necessarily. It is more specific, but it's, you know, generally in line. BY MR. FROST: Q. Generally in line. Doesn't the IRSST
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	Page 86		Page 88
1	MS. SCOTT: I think we're on five.	1	that are related to the crystal structure and are always
2	MR. FROST: Okay. Yeah. I was going to	2	parallel to crystal faces." That's in line with what
3	say maybe we can keep track.	3	you've described, right, for cleaving?
4	VIDEOGRAPHER: I'm keeping track, but the	4	A. That statement is not correct.
5	last one you just gave him, you said three.	5	Q. It's not correct?
6	MR. FROST: Oh, okay. So I guess we are	6	A. You can have cleavage that is, has a
7	on 4. We'll mark this whatever the next exhibit	7	variety of degree as a perfection to it.
8	is.	8	Q. And, again, do you have can you cite
9	(Exhibit 4 was marked for	9	me a study that you're relying on for that opinion?
10	identification.)	10	A. I can probably point to a book, but it's
11	BY MR. FROST:	11	something that is I mean, it's taught in mineralogy,
12	Q. Take a look at it. Have you ever seen	12	introduction to mineralogy. You have different levels
13	this paper before?	13	of perfection of cleavage. So, for example, micas are
14	A. I'm not sure. I immediately don't see it	14	said to be perfect in cleavage, and a lot of the
15	in the reference list.	15	amphiboles are said to be good but not necessarily
16	Q. I can tell you, it's not on your	16	perfect.
17	reference list.	17	And, actually, you can see in this SEM
18	A. Okay. Yeah. I have not seen this	18	image, there's all kinds of irregularities on the
19	before.	19	surface. And on this particular SEM image, it's
20	Q. Have you ever heard of Dr. William J.	20	extremely bright. The contrast is wrong. It's not
21	Campbell?	21	you know, you can't tell what is on that right end of
22	A. No, I have not.	22	the image that is the tremolite particle there.
23	Q. You'd agree with me that this is a report	23	Q. I'll stop you here. I'm confused because
24	from the United States Department of the Interior,	24	your problem with the definition appears to be the word
25	Bureau of Mines?	25	"perfect," which doesn't actually appear in the
	Page 87		Page 89
1	Page 87 A. Yes.	1	
1 2		1 2	definition. But you generally agree that a cleavage
	A. Yes.		definition. But you generally agree that a cleavage fragment is a cleave along a generally parallel plane of
2	A. Yes.Q. You'd agree with me that they are a	2	definition. But you generally agree that a cleavage
2 3	A. Yes. Q. You'd agree with me that they are a reliable source	2 3	definition. But you generally agree that a cleavage fragment is a cleave along a generally parallel plane of a crystalline structure, right?
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Page 92 Page 90 1 Well, you know, if you can cleave or process something, 1 Yes, I believe this is what's cited in 2 roll it such that, you know, you get particle size 2 the report. This is the 2010 IARC. 3 3 reduction, and that particle size is then, matches, Can you please turn to page 277? If you 4 4 look at the bottom paragraph, it says, "Asbestos is a although perhaps there is disagreement on what 5 asbestiform is, but it matches what a fiber is, then 5 commercial term that describes six minerals that occur 6 that's --6 in the asbestiform habit: Actinolite, anthophyllite, 7 BY MR. FROST: 7 chrysotile, grunerite, riebeckite and tremolite (IARC, 8 8 Q. But, again, you can't point me to a 1977). Similarly to talc, these six minerals occur more 9 9 single study or peer-reviewed piece of literature that commonly in a non-asbestiform habit and may also be 10 10 supports your opinion, correct? elongated without being asbestiform." And then if you 11 11 MS. SCOTT: Objection. follow down, it says, "when asbestiform, they constitute 12 A. I think it's -- I think it's a very much 12 asbestos and, when not asbestiform, they are referred to 13 a reasonable interpretation. It's almost too basic, in 13 as mineral fragments or cleavage fragments." 14 a way. I mean, if we know -- we're taught, actually, at 14 So, again, here, IARC is talking about 15 15 the introductory level, that minerals cleavage is the how the crystal forms or how it grows to distinguish 16 16 first things we teach, and essentially cleavage is an asbestiform versus cleavage fragment, correct? 17 17 interval property of a given mineral, and then you can MS. SCOTT: Objection. 18 reduce it, and that's why minerals, when you crush a 18 A. So you're saying as it forms? 19 mineral, you actually, you have sort of the same general 19 BY MR. FROST: 20 kind of particle shape. So you take mica, for example, 20 Yes. Q. 21 and you crush it and you get a particle size reduction, 21 So mechanical processes can be how a Α. 22 and a lot of that is happening along the cleavage 22 mineral is formed or how a texture is developed. 23 planes. So I think --23 So you're saying the cleave of a 24 BY MR. FROST: 24 prismatic crystal can considered the morphology of how 25 25 Q. So that's what I established. So you that crystal forms? Page 91 Page 93 1 think IRSST is wrong. You think the Bureau of Mines is 1 A. No. You said how a mineral -- what did 2 wrong, right? 2 you say? 3 MS. SCOTT: Objection. 3 Yes, that's what I said is how a mineral Q. 4 BY MR. FROST: 4 forms. This is what they're saying: A mineral can 5 5 Q. Why don't we look at the World Health form --6 6 Organization? A. 7 MR. FROST: This is -- I'll mark this as 7 Q. -- an asbestiform habit or not. 8 8 Exhibit 5. A. -- form is not growth. Form is not 9 9 MS. O'DELL: Monograph 93. growth. 10 MR. FROST: Yes, it's Monograph 93. 10 Okay. Fine. It's saying here that how a 11 11 crystal grows or develops determines whether or not it's Sorry. 12 12 (Exhibit 5 was marked for is a mineral fragment or asbestiform, correct? 13 MS. SCOTT: Objection. 13 identification.) 14 A. So this would be IARC 2010. 14 MS. O'DELL: Object to the form. 15 MR. FROST: Does anyone need a copy or 15 "When asbestiform, they constitute 16 16 pull it up on your computer? asbestos, and when not asbestiform, they are referred to 17 17 MS. SCOTT: Yeah. as mineral fragments or cleavage fragments." That's how 18 18 MR. FROST: That's a better way to look they are referred to. But I don't see anything in here 19 19 at it. about growth. There's nothing about precipitating out 2.0 MR. FERGUSON: I'll take one, Jack, if 20 of a solution. There's nothing precipitating out of a 21 21 you've got an extra one. melt. There's nothing precipitating from some 22 22 MR. FROST: I do. mineralogical transformation. So -- and, again, you 23 23 MR. FERGUSON: Lighten your load. know --24 24 BY MR. FROST: BY MR. FROST: 25 Q. Are you familiar with this publication? 25 Q. But, again, I just want to go back.

24 (Pages 90 to 93)

Page 96 Page 94 1 A. -- cleavage --1 question. 2 MR. LAPINSKI: Let him finish his answer. 2 A. -- activity --3 MR. FROST: Sure. 3 Let me ask you a question. Let me ask 4 Whether something is a cleavage or 4 you the question without reading from the thing, because 5 fragment or not, it can be -- it can match the 5 you're reading the phonetics, which aren't actually the 6 dimensions of something that is defined by NIOSH or 6 question I'm asking. 7 other things. It can be 1 micron by 3 microns or it can 7 A. Okay. I'm sorry. 8 be 1 micron by 5 microns. So I don't -- the -- you 8 What properties, other than size, will 9 know. But this, this doesn't seem to -- you keep 9 tell you whether or not a particle is a cleavage 10 implying that there has to be growth for the mineral to 10 fragment versus an asbestiform fiber? occur, but it's not -- apparently, in here, it doesn't, 11 11 What properties other than size? 12 it doesn't make that stipulation. 12 Q. I guess size truly -- is that what 13 Grinding, grinding can be one method, and 13 determines whether or not a particle is asbestiform then deformation. We have other examples where, 14 14 versus a cleavage fragment, in your opinion? 15 essentially, textures are developed from deformation, 15 MS. SCOTT: Objection. 16 meteorite impacts. We have metamorphic rocks. We can 16 A. It's a major, a major factor in it. But, have, essentially, high temperature or high pressure 17 17 you know, you can have things that are large that are metamorphic rocks that have one form of quartz in them. 18 18 asbestiform as well. So hand samples, images in --19 Then when they get exhumed, essentially, they shatter 19 Q. Okay. Can you answer my question? Is it 20 the granite around them and create a different texture. 20 a major component or is that the difference? And if 21 So I don't, I don't think that growth is 21 there's more than just size, what are the other things 2.2 necessarily related to -- I think, in my professional 22 you look at to determine whether or not a particle is a 23 opinion, it's not related to the generation of cleavage 23 cleavage fragment versus an asbestiform fiber? 2.4 fragments, and it's my professional opinion that 24 MS. SCOTT: Objection. He is answering 25 2.5 cleavage fragments can have asbestiform materials. your question. Go ahead, Doctor. Page 95 Page 97 BY MR. FROST: 1 The other thing that confuses things is 1 2 2 you can have a cleavage fragment that's a meter, right? Q. I don't understand how telling me the 3 You can -- you can have large crystals. You can go out 3 size of giant pattern, giant rocks that are grabbed from 4 4 somewhere else. What I want to know are what properties to the South Dakota mines and pick up a spodumene, hit 5 5 do you look at when you're trying to determine if it's it with a hammer. That's a cleavage fragment. Because 6 6 an asbestiform fiber versus a cleavage fragment? Is it we have these same atomic laws, essentially, you get the 7 7 just the size of the mineral with -- you know, the same type of effects into the small particle ranges. 8 8 aspect ratio of the mineral? Is that purely what Q. So now I'll go back to the same question 9 9 determines, in your opinion, whether a particle is I asked before you couldn't answer, and that was, other 10 10 asbestiform versus cleavage? than size, other than this whole idea of aspect ratio, 11 what other differences can you tell me there is between 11 A. That and the texture. 12 Q. What do you mean by "texture"? What 12 an asbestiform fiber and a cleavage fragment? Is it 13 properties are you looking at in the texture? 13 truly just size, in your opinion, that makes something 14 asbestiform? 14 A. The texture is how -- is the size, shape 15 MS. SCOTT: Object to the form of the 15 and distribution of materials. 16 question. You can answer. 16 Q. So, again, we're talking about size, 17 BY MR. FROST: 17 shape and distribution. These are the only -- these are 18 18 the aspects --Q. It's an easy enough question. I'll ask 19 A. I get that from -- I'm sorry. 19 it a different way if you want. 2.0 A. I'm a slow reader. Sorry. What 20 Q. I was going to say, size, shape and 21 21 distribution are the attributes you look at to determine differences can you tell me there is between asbestiform whether or not a particle is asbestiform versus 22 fiber around achieve advantage fragment -- a cleavage 22 23 23 fragment. So if you're talking about just differences cleavage? in general --2.4 24 A. A spatial distribution is not necessarily 25 Q. Well, no. That's why. Let me ask you a 25 size and shape.

25 (Pages 94 to 97)

	Page 98		Page 100
1	Q. What do you mean by "spatial	1	between a cleavage fragment and an asbestiform fiber?
2	distribution," then?	2	Q. Yes.
3	A. The occurrence of it in a sample or	3	A. A cleavage fragment can be a subset of
4	substrate.	4	asbestiform fibers.
5	Q. What do you mean by "occurrence of it in	5	Q. So you're telling me there's no
6	a sample or substrate"?	6	difference between a cleavage fragment and asbestiform
7	A. The placement of it. So, essentially, we	7	fiber if it's
8	can have a lithology onto which, relative to that, an	8	A. No.
9	asbestiform material occurs.	9	Q if they're the same size?
10	Q. What do you mean by lithology upon which	10	A. If it's
11	an asbestiform material occurs?	11	MS. SCOTT: Let him finish.
12	A. Lithology is a general term for a type of	12	BY MR. FROST:
13	rock. It's a very general term for a type of rock.	13	Q. If they meet whatever aspect ratio
14	Q. Okay. So, effectively, you're saying the	14	definition you want to put on it, as far as you're
15	type of rock it is and the size and shape of the	15	concerned, any cleavage fragment that meets that
16	particle determine whether or not it's asbestiform?	16	definition is an asbestiform fiber?
17	Those are the three considerations you look at?	17	MS. SCOTT: Objection.
18	A. Well, so, not necessarily, but, you know,	18	A. Speculative in that I don't you know,
19	I'm talking about hand sample size.	19	I don't
20	Q. Okay. And this is and what about	20	BY MR. FROST:
21	and what about micron size, when you're looking at a	21	Q. It's not speculative. I'm asking for
22	particle that's micron size?	22	your definition.
23	A. Aspect ratio is important. I think that	23	A. I'm sorry. I have an incomplete thought.
24	and so to identify a fiber or a cleavage fragment, to	24	A cleavage fragment can be a subset of it can be a
25	thoroughly identify things, one should generally do,	25	subset of an asbestiform fiber.
	Page 99		Daga 101
			Page 101
1	should do TEM work. And in order for that data to be	1	Q. How? Like how do you so what okay.
1 2	should do TEM work. And in order for that data to be interpreted, to identify the aspect ratio and also what	1 2	
			Q. How? Like how do you so what okay.
2	interpreted, to identify the aspect ratio and also what	2	Q. How? Like how do you so what okay.A. Based on the size and the dimensions that
2	interpreted, to identify the aspect ratio and also what the material is, you need to do imaging electron	2 3	Q. How? Like how do you so what okay.A. Based on the size and the dimensions that are provided in the paragraph in page 4.
2 3 4	interpreted, to identify the aspect ratio and also what the material is, you need to do imaging electron diffraction and electron microscopy. Q. Okay. I fear you're not understanding my question. I'm not — I want to know what the difference	2 3 4	 Q. How? Like how do you so what okay. A. Based on the size and the dimensions that are provided in the paragraph in page 4. Q. Okay. So it's purely size and dimension
2 3 4 5	interpreted, to identify the aspect ratio and also what the material is, you need to do imaging electron diffraction and electron microscopy. Q. Okay. I fear you're not understanding my question. I'm not — I want to know what the difference is between an asbestiform particle and a cleavage	2 3 4 5	 Q. How? Like how do you so what okay. A. Based on the size and the dimensions that are provided in the paragraph in page 4. Q. Okay. So it's purely size and dimension is what determines whether or not a cleavage fragment is
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Page 102 Page 104 1 particle, is a cleavage fragment versus an asbestiform 1 first, it has to be of a rock that could be asbestiform, 2 fragment. Is that -- is that a fair summary of your 2 and then the major component is the size, meaning aspect 3 3 ratio. Is that a fair summary of the definition you're 4 A. I'm unsure. I'm sorry. I'm tired. 4 giving me? 5 5 The -- if it -- so the -- so in your question, mineral A. I'm not sure. I'm sorry. I'm spacing 6 6 type doesn't matter, correct? out a little bit. A cleavage fragment can be 7 Q. I don't know. I'm asking you how you 7 asbestiform. 8 define. Does mineral type matter for asbestiform versus 8 Q. Okay. But what I keep asking you is --9 non-asbestiform? 9 A. The criteria? 10 10 A. Well, there are minerals that tend to be The criteria you're using to define 11 11 something as asbestiform, is it purely rock type, that asbestiform or can be asbestiform and not. So, but 12 that's not necessarily related to the -- asbestiform is 12 is, a type of rock that can be asbestiform? 13 a descriptor of the minerals, not necessarily -- so I 13 A. I --14 14 would use what, what I have in the report, basically. I Hold on. That's one. Q. 15 would say that a cleavage fragment can be an asbestiform 15 Okay. A. 16 particle and size. The aspect ratio is a major 16 And then the other, which is the major contributor. 17 17 component, is the size, meaning the aspect ratio of the 18 18 particle. Are those the two things you look at when Also, the -- you know, if it is a -- so, 19 19 you're determining whether or not a particle is an for example, if the chemistry and the electron 20 diffraction data and the images also indicate that it is 20 asbestiform fiber? 21 a mineral that is known to be asbestos, I think that 21 A. I would sort of correct myself in saying 22 that would be -- that would support that. 22 the particle size and the mineralogy. 23 I think that, you know, if you had --23 Q. Okay. Particle size and mineralogy. And 24 it's like kyanite, for example, might -- kyanite might 24 mineralogy, meaning the type of mineral it is, correct? 25 25 have -- meet those dimension, fiber-dimension Yes. A. Page 103 Page 105 1 Q. Okay. And, again, the basis of your 1 requirements, but because it is kyanite, it wouldn't 2 2 opinion that that's the definition of asbestiform comes necessarily be described as asbestiform, but it would be 3 3 a fiber. So there's complexities. from your coursework and undergraduate and graduate, 4 4 Q. Okay. So I think we have -- I'll change correct? 5 my summary of your opinion. So in determining whether 5 6 6 or not an elongated mineral particle, and we can agree Q. And sitting here today, you can't cite me 7 7 an elongated mineral particle is a particle that, you a single study in the peer-reviewed literature or from 8 8 know, broke off of something that's long, right? Can we any government organization that supports that theory, 9 agree on that? 9 correct? 10 10 MS. SCOTT: Objection. A. Yes 11 MS. O'DELL: Objection. Form. 11 Okay. So in order to determine if an 12 12 elongated mineral particle is a cleavage fragment or A. So --13 asbestiform fiber, the two things you look at are, 13 BY MR. FROST: Q. I'm just asking for citations. 14 first, whether or not it's a rock that can be 14 MR. LAPINSKI: Let him finish. 15 asbestiform, and then, second, which is the major 15 16 component, is its size, meaning aspect ratio. Is that a 16 A. I cannot -- I cannot -- let me think how 17 fair summary of your opinion? 17 to phrase this. Peer review, I have had discussions, 18 A. Well, so that's a different question. So 18 actually, with my -- a former committee member, Bill 19 19 Mull. He was on my Ph.D. committee, and we had several elongated mineral particle --20 Q. Then if elongated mineral particle's 20 discussions about impurities and things like that and 21 confusing you, I'll take that out. 21 industrial minerals. He was an industry guy. 22 22 And, basically, we talked about small So if we're trying to figure out if a 23 23 particles breaking off and how that could be of concern particle -- I don't care what size, I don't care if it's 24 24 elongated or not. If we're trying to figure out if a in different ways. And then I've had discussions in

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industry about, essentially, fine particles getting

25

25

particle is a cleavage fragment or an asbestiform fiber,

	Page 106		Page 108
1	entrained in things with another company, one based here	1	definition, according to the paragraph?
2	in Cincinnati, not basically asbestiform, not basically	2	A. I'm just saying that's what they define
3	asbestos, but there's graphite and biotite.	3	those as.
4	So no peer-review literature, but I've	4	Q. Do you believe you've included the whole
5	had discussions in a general sense, but not specific to	5	definition that ATSDR has of asbestos in your paper?
6	talc, but with contaminants, small particles breaking.	6	MS. SCOTT: Objection.
7	Q. So the basis	7	A. I believe it's consistent with a document
8	A. So I think companies sometimes use	8	I've done. I was gonna say, there are other academic
9	different it's actually common for companies to use	9	classifications. Sometimes I know, in my classwork, it
10	different words. They have internal vocabularies, even,	10	was discussed like antigorite sometimes comes up.
11	you know, so that might be the issue.	11	Antigorite is actually something that's detected in some
12	BY MR. FROST:	12	of the documents as well. So antigorite can be, look
13	Q. So it's based off your coursework and	13	like it's asbestos, but it's not officially classified.
14	discussions with industry individuals but not any	14	So there's some con if you look in the
15	peer-reviewed literature?	15	older literature, there's some confusion. People will
16	MS. SCOTT: Objection.	16	also refer to other minerals, perhaps incorrectly, as
17	A. Yes. Correct.	17	being asbestos. So it's historically, I think it can
18	BY MR. FROST:	18	be a term that is applied either too loosely or things
19	Q. All right. We're going to move to	19	just haven't worked out, so
20	another definition. Okay?	20	BY MR. FROST:
21	A. Okay.	21	O. And the definition of asbestos in the
22	Q. I note in your report let me find	22	ATSDR, is that something you found yourself or was that
23	where it is. At the top, under the section that says	23	given to you by plaintiffs' counsel?
24	"Asbestos" on page 4. Second sentence, you say,	24	MS. SCOTT: Objection.
25	"Asbestos is a naturally occurring mineral that can be	25	A. I looked at ATSDR is something that
	Page 107		Page 109
1	in close proximity to talc in mines around the world."	1	I've used in the past for my publications in general, so
2	Is asbestos a mineral?	2	I'm familiar with them. So we use that in a variety of
3	A. I'm sorry. It should be mineral group.	3	ways to help frame our discussions in peer-review
4	Q. Okay. That was going to be my next	4	articles and things like that.
5	question. Asbestos is a defined group of minerals,		
6		5	BY MR. FROST:
	correct?	6	Q. All right. I'm going to mark this next
7	A. Yeah. It can be referred to that.	6 7	Q. All right. I'm going to mark this next exhibit. I think we're on six.
7 8	A. Yeah. It can be referred to that.Q. Okay. Without looking at your report,	6 7 8	Q. All right. I'm going to mark this next exhibit. I think we're on six. MS. SCOTT: Yes.
7 8 9	A. Yeah. It can be referred to that. Q. Okay. Without looking at your report, can you tell me what minerals fit the definition of	6 7 8 9	Q. All right. I'm going to mark this next exhibit. I think we're on six. MS. SCOTT: Yes. MR. FROST: Yep.
7 8 9 10	A. Yeah. It can be referred to that. Q. Okay. Without looking at your report, can you tell me what minerals fit the definition of asbestos?	6 7 8 9 10	Q. All right. I'm going to mark this next exhibit. I think we're on six. MS. SCOTT: Yes. MR. FROST: Yep. (Exhibit 6 was marked for
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	Page 110		Page 112
1	Q. Okay. Turn to actually, it's page 1.	1	statement.
2	It's a misnomer. It's decently into it, probably about	2	MR. FROST: Sure.
3	10 or 15 pages into it. As I said, the one is a	3	MS. SCOTT: Go ahead.
4	misnomer. Okay.	4	BY MR. FROST:
5	MS. SCOTT: I have a	5	Q. Do you see the second highlighted portion
6	MR. FROST: Yeah. I was going to say, I	6	on that page? It starts at the bottom. "Asbestos
7	apologize for it being highlighted, but I'm	7	minerals consist of thin, separable fibers that have a
8	going to read the highlighted parts anyway, so	8	parallel arrangement. Nonfibrous forms of tremolite,
9	it will help guide us there. That was a	9	actinolite and anthophyllite are found naturally.
10	printing issue.	10	However, because they are not fibrous, they are not
11	BY MR. FROST:	11	classified as an asbestos mineral." That's different
12	Q. Do you see where it defines, under	12	than what you're telling us here, correct?
13	Section 1.1, "What is Asbestos"?	13	A. Let me compare.
14	A. Yes, I do.	14	Q. Well, that's what you just told us, that
15	Q. Do you notice that its definition of	15	you could have nonfibrous tremolite and it would still
16	asbestos are "the fibrous varieties of tremolite,	16	be asbestos.
17	actinolite and anthophyllite that occur naturally in the	17	A. I'm sorry. What was the question again?
18	environment"?	18	This is not consistent with what I have written?
19	MS. SCOTT: Objection.	19	Q. I'm saying it's not consistent with what
20	A. I see that, yeah.	20	you just told me. You just told me the fibers doesn't
21	BY MR. FROST:	21	really matter because you can have
22	Q. That's slightly different than what you	22	A. Fibers
23	attribute the definition of asbestos from the ATSDR in	23	Q. So my question is: You're relying on
24	your report, right? You don't note that it's the	24	say you rely on the ATSDR as the definition for
25	fibrous varieties of the amosite, crocidolite,	25	asbestos, but your definition of asbestos, sitting here
	Page 111		Page 113
1		1	
1 2	actinolite, anthophyllite and tremolite, correct?	1 2	today, is actually different than that of the ATSDR. So
	actinolite, anthophyllite and tremolite, correct? A. Let me just double-check.		
2	actinolite, anthophyllite and tremolite, correct? A. Let me just double-check. Q. It's page 4.	2	today, is actually different than that of the ATSDR. So it doesn't really support what you're saying today, correct?
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2 3 4	actinolite, anthophyllite and tremolite, correct? A. Let me just double-check. Q. It's page 4. A. In two general classes. I omitted the	2 3 4	today, is actually different than that of the ATSDR. So it doesn't really support what you're saying today, correct? MS. SCOTT: Objection. Misrepresents.
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	Page 114		Page 116
1	MS. SCOTT: Objection.	1	morphology can have potentially dangerous health
2	A. That's what's stated in the document.	2	effects?
3	BY MR. FROST:	3	A. Yes, I say those documents.
4	Q. Okay. Let's move down to the third	4	Q. Okay. Let's look at the NIOSH road map.
5	paragraph under "Asbestos" in your report. Do you see	5	MR. FROST: Did you mark that yet?
6	the I don't know. What sentence is it? Third	6	(Exhibit 7 was marked for
7	sentence starts, "However, non-asbestiform cleavage	7	identification.)
8	particles can correspond to the definition of respirable	8	BY MR. FROST:
9	fiber as defined by WHO and, due to its morphology, can	9	Q. Do you recognize this as the NIOSH
10	have potentially dangerous health effects." Do you see	10	document that you were relying on for your statement?
11	that?	11	MS. SCOTT: Jack, can you, just for my
12	A. Yes.	12	ease, can you direct me to the citation within
13	Q. Now, you don't have an opinion yourself	13	the report?
14	as to whether or not asbestiform can cause any disease.	14	•
			MR. FROST: That I'm going to go to?
15	You're not a doctor, right?	15 16	MS. SCOTT: Yeah.
16	A. Correct.		MR. FROST: I'm going to page 5, or V,
17	Q. And you're relying on, you know, other documents and things you've read for that statement?	17	which is the Executive Summary.
18		18	MS. O'DELL: Thank you. You're talking
19	That's correct?	19	about in the NIOSH document?
20	A. Correct.	20	MR. FROST: Oh, in his?
21	Q. Do you have any opinion on whether or not	21	MS. O'DELL: Yes.
22	the surface chemistries of cleavage fragments versus	22	MR. FROST: It's on page 4, third
23	asbestiform fibers are the same?	23	paragraph down from Asbestos. It's NIOSH 2010,
24	A. I'm not a surface geochemist.	24	IRSST 2012.
25	Q. Okay. Do you agree with me that IARC has	25	MS. SCOTT: Thank you.
	Page 115		Page 117
1	ultimately determined that non-asbestiform cleavage	1	A. I'm not seeing it in my list.
		_	A. Thi not seeing it in my list.
2	fragments actually are not or do not sorry. Let me	2	BY MR. FROST:
2		1	
	fragments actually are not or do not sorry. Let me	2	BY MR. FROST:
3	fragments actually are not or do not – sorry. Let me reform that.	2	BY MR. FROST: Q. Well, yeah. But if you look at page 4 of
3 4	fragments actually are not or do not sorry. Let me reform that. Could we also agree that IARC has	2 3 4	BY MR. FROST: Q. Well, yeah. But if you look at page 4 of your report, you cite to NIOSH 2012 for the proposition
3 4 5	fragments actually are not or do not sorry. Let me reform that. Could we also agree that IARC has determined that non-asbestiform minerals are not	2 3 4 5	BY MR. FROST: Q. Well, yeah. But if you look at page 4 of your report, you cite to NIOSH 2012 for the proposition that
3 4 5 6	fragments actually are not or do not — sorry. Let me reform that. Could we also agree that IARC has determined that non-asbestiform minerals are not carcinogenic?	2 3 4 5 6	BY MR. FROST: Q. Well, yeah. But if you look at page 4 of your report, you cite to NIOSH 2012 for the proposition that A. Wait. Okay.
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Page 118		Page 1
that NIOSH is not supporting the position you have in	1	indicated, I thought there might be typos in the report
your paper here, correct? NIOSH's determination is that	2	Q. Okay. What's the typo?
they can't make one. More research is necessary, right?	3	A. So, essentially, the difference should be
MS. SCOTT: Objection.	4	diversity. Tale forms in the earth in metamorphic
A. That is what's stated here.	5	terranes, and the diversity is metamorphosed mafic ar
BY MR. FROST:	6	ultramafic rock deposits show the complexity of tale
Q. Let's turn back to the IRSST document. I	7	ores at different levels.
forget what we marked that as. I think it's 4. There	8	Q. Okay. And
it is. If you can turn to page 37.	9	A. Sorry about that.
A. Okay.	10	Q. That's okay. Typos happens.
Q. And, again, at the top nine	11	Your support for that is Berg 1977?
recommendations, it states, Since a conclusion cannot be	12	A. Yes.
reached about the biological effects from the	13	
	14	
distinction between a cleavage fragment and asbestos	1	A. It's e.g., Berg, so that's an example.
fibers actually, I did not read that correctly. Let	15	Q. Yes. Well, look at the one example you
me try again.	16	pointed to.
"Since a conclusion cannot be reached	17	MR. FROST: Let me see if I can find a
about the biological effects from the distinction	18	copy. Let me see if I can find a copy where the
between cleavage fragments and asbestos fibers," and	19	staple hasn't come out. We'll mark that one.
then it continues to say precautionary things. So,	20	Do you all need one?
again, they also haven't determined, as you state in	21	MS. SCOTT: Sure.
your report, that it has the same dangerous health	22	MR. FROST: Be careful of the staple.
effects, correct?	23	It's pokey.
MS. SCOTT: Objection. Scope.	24	MS. SCOTT: I appreciate that.
A. It says what it says.		
1. It says what it says.	25	(Exhibit 8 was marked for
Page 119	25	(Exhibit 8 was marked for Page 1
Page 119		Page 1
Page 119 BY MR. FROST:	1	Page 1
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Page 119 BY MR. FROST: Q. Yes. They come to the same conclusion as NIOSH, and that's, we don't know one way or the other. More research needs to be done, right? A. Correct. Q. Other than these two, can you point me	1 2 3 4 5 6	identification.) BY MR. FROST: Q. Do we agree this is the Berg '77 you reference in your report? A. I'm not a hundred percent sure. Q. It also appears, if you look at 18
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	Page 122		Page 124
1	sorry.	1	think
2	Q. If I were to tell you that talc isn't	2	Q. You certainly didn't include it in the
3	even mentioned in this paper	3	report, right?
4	A. Yeah. I mean, there's like the book I	4	MS. SCOTT: Objection.
5	had, there's images of mines that talks about, I think,	5	A. I don't know. I forget.
6	the Yellowstone mines, specifically. So I'm sorry about	6	THE WITNESS: Can we take a break?
7	that. I totally, totally missed that.	7	MR. FROST: Sure.
8	Q. Okay. If we move down to the next	8	VIDEOGRAPHER: We're now going off
9	sentence, you state that "Italian mines, which Johnson &	9	record. The time is 12:21.
10	Johnson and Imerys obtained talc for cosmetic	10	(A recess was taken from 12:21 to 1:25.)
11	production, were ultramafic origin."	11	VIDEOGRAPHER: We're now back on record.
12	A. Okay.	12	The time is 1:25.
13	Q. Is that true?	13	BY MR. FROST:
14	A. I believe so.	14	Q. All right. Welcome back from lunch. We
15	Q. Can we turn back to the IARC 2010? It's	15	were on page 4 of your report under "Formations of
16	the one with the orange cover. Go to page 283 to 84.	16	Talc." And we talked about Italy. Let's move on to
17	A. Okay.	17	Vermont. You say, "Vermont mines relevant to this
18	Q. If you look at B, towards the bottom, it	18	litigation are mafic and ultramafic origins." What's
19	says, "Talc derived from magnesium carbonites."	19	your support for that statement?
20	A. Okay.	20	A. I'm sorry. Oh, bottom of 4?
21	Q. "Talc deposits formed from the alteration	21	Q. Yeah, bottom of 4, moving on to 5.
22	of carbonite and sandy carbonite, such as dolomite and	22	A. It's the geology of the area.
23	limestone, are the most important in terms of world	23	Q. Do you believe there are mafic formations
24	production. Two types are recognized." And if you skip	24	of talc relevant to the Vermont mines used by Johnson &
25	down to two, it says, "Those derived from hydrothermal	25	Johnson and Imerys in this case?
	Page 123		Page 125
1	alteration (including retrograde metamorphism) of	1	A. Yes.
2	regionally *metamorphosed siliceous dolomites and other	2	Q. And do you have a geological survey or
3	magnesium-rich rocks." And then if you turn the page	3	something else you're relying on for that?
4	over one, two, three, it says "Italy vouches own after	4	A. There are USGS reports and things like
5	that."	5	that.
6	A. So this is information produced by	6	Q. And they say mafic? They don't just say
7	Luzenac?		Q
ı '	Edzende:	7	it's an ultramafic belt?
8	Q. Well, this is from IARC.	8	it's an ultramafic belt? A. I believe so.
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Well, this is from IARC. A. It's in IARC, but they're citing Luzenac as part of this, and each — the occurrences of each individual mine are — location are not shown. IARC is more of a health thing. I would not necessarily expect a detailed analysis of a geology from an IARC monograph. So Q. Can you point to me to any geological study that shows — MR. LAPINSKI: Counsel, let him finish his answer first. A. So, I don't think that — I don't know what they are specifically relying on. BY MR. FROST: Q. Can you cite me any geological study that	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	it's an ultramafic belt? A. I believe so. Q. On page 5, kick down to the next paragraph, the one that starts, "Asbestos minerals, including chrysotile, tremolite and actinolite" I'm sorry, "tremolite, actinolite and anthophyllite are common in talc ores." What's your basis for the statement, because it's uncited? A. It's common knowledge Q. Can you point me to a A mineralogy. Q. Can you point me to a peer-reviewed source that states that? A. Let see here. MR. LAPINSKI: Jack, while he's looking, what was the statement from the report?

32 (Pages 122 to 125)

	Page 126		Page 128
1	tremolite," et cetera. The first full	1	something. That's not actually stated in this book,
2	paragraph.	2	correct?
3	A. So reference 40, figure 3, is a	3	MS. SCOTT: Object to the form.
4	comparison I computed with silica activities. So,	4	A. The diagrams are that's how one can
5	essentially, it showed boundaries between talc and	5	interpret these diagrams.
6	chrysotile. And figure 2 shows temperature pressure	6	BY MR. FROST:
7	diagrams for chrysotile and talc. Figure 4 shows	7	Q. Okay. So
8	comparison of computer phase equillibrium, experimental	8	A. The field
9	data of Johannes, 1969. It shows chrysotile and talc	9	Q. Does it say it's common?
10	fields. So the significance of those fields is that	10	MR. LAPINSKI: Counsel, let him finish
11	because of so those are fields where things, when, in	11	his answer, please.
12	absolute equillibrium, those discrete phases are set or,	12	MR. FROST: Sure.
13	essentially, those are the phases that are stable.	13	A. So, you know, phase diagrams and the
14	The minerals are stable. But you can go	14	interpretation of phase diagrams is something that
15	back, you know, because of geologic conditions are	15	mineralogists and petrologists do all the time, and
16	variable, you can have metamorphism that heats up an	16	basically, we often will refer to a given phase diagram.
17	area or then cools down. You can then the geologic	17	People spend their entire lives perfecting phase
18	conditions then can cross those phase boundaries, and	18	diagrams. That was typically in the '50s, '60, '70s and
19	you essentially can have minerals that are stable for a	19	'80s.
20	while and then revert. But, often, those reversions are	20	So people will actually refer to specific
21	not necessarily complete. And to substantiate that	21	phase diagrams by people. So one of my committee
22	BY MR. FROST:	22	members, when I was on my Ph.D., he had the best phase
23	Q. Can I stop you right there?	23	diagram for quartz for some period of time. So we use
24	A. Yes.	24	those phase diagrams. They're commonly used to
25	Q. Where does Chernoskey say that asbestos	25	interpret mineral associations and assemblages.
	Page 127		Page 129
1		1	
1 2	minerals are common in talc ores? You just told me	1 2	Page 129 To further answer the question, the – I believe it's the Veblen '79. Veblen and Buseck is the
	minerals are common in talc ores? You just told me about how, chemically, things form		To further answer the question, the I believe it's the Veblen '79. Veblen and Buseck is the
2	minerals are common in talc ores? You just told me about how, chemically, things form	2	To further answer the question, the – I believe it's the Veblen '79. Veblen and Buseck is the science paper that shows the TEM associations, you know,
2	minerals are common in talc ores? You just told me about how, chemically, things form A. The thermodynamic diagram. I'm sorry. Go ahead.	2 3	To further answer the question, the I believe it's the Veblen '79. Veblen and Buseck is the
2 3 4	minerals are common in talc ores? You just told me about how, chemically, things form A. The thermodynamic diagram. I'm sorry. Go ahead. Q. Yes. You just told me about how	2 3 4	To further answer the question, the I believe it's the Veblen '79. Veblen and Buseck is the science paper that shows the TEM associations, you know, essentially, these intergrowths of talc and chrysotile. And, essentially, that literature proves the
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33 (Pages 126 to 129)

Page 132 Page 130 MS. SCOTT: Objection. 1 These are relevant for understanding larger processes of 1 2 metamorphism and understanding, you know, what --2 A. You can have an ore of talc. The two are 3 3 not -- so go ahead. Proceed. essentially what the history of the earth is. So the 4 diagrams aren't generalized. They're very, very 4 BY MR. FROST: 5 specific --5 Q. So where in this book is it specifically 6 6 Q. That's why I want you to listen very saying that talc ores, which are ores that have been, 7 carefully to what I'm asking you. We'll really step 7 you know, talc deposits that have been determined, as 8 8 you said, to be economically viable, will commonly be 9 9 associated with chrysotile, tremolite, actinolite, All right. You agree with me, talc ore 10 10 is different than talc, right? Ore means it's the anthophyllite? 11 MS. SCOTT: Objection. 11 deposit that is being mined, right? 12 MS. O'DELL: Objection. 12 A. The mineral constituency --13 A. The mineral talc is a primary --13 BY MR. FROST: Q. But listen to the "ore." 14 Q. So, again, you're --14 15 -- constituent --15 A. - is -- minerals make up the talc ore. MR. LAPINSKI: Let him answer the 16 So you can't separate -- you can't separate the ore from 16 17 the mineral when you're talking about how it's formed. 17 question, Counsel. A. So the mineral talc is a primary 18 It's integral. I mean, it's absolutely integral to the 18 19 ore. You know, it would not be an ore if it didn't have 19 constituent of ore, and you can't -talc in it, right? It wouldn't -- you have to have the 20 BY MR. FROST: 20 21 Q. And that's why I want you to listen to 21 required constituent in order for it to be an ore. 22 me. I'm talking about ore. Ore means it's a talc 22 So, therefore, you know, every 23 deposit that's being mined, right? You wouldn't find a 23 petrologist in the world, every, you know, mineralogist, 24 piece of talc you found in somebody's backyard and call 24 you know, we refer to these thermodynamic diagrams that 25 25 it ore, would you? Ore is a definition of a mineral have been worked out for, you know, now, some of them, Page 131 Page 133 you know, decades. One was '69 or whatever. So I don't 1 that's being mined. Do you agree with me there? 1 2 2 MS. SCOTT: Objection. think it's -- it's my professional opinion that these 3 A. Yeah. Ore is not necessarily a mineral. 3 thermodynamic diagrams adequately relate and describe to 4 Ore can be multiple minerals. 4 the mineral phases that occur in talc ore. BY MR. FROST: 5 5 BY MR. FROST: 6 Q. Sure. But ore is something that's being 6 Q. Okay. So you are making a 7 mined, right? 7 generalization, based upon the mineral phases, that all 8 Yes. It's something of economic A. 8 talc ores --9 interest --9 A. I would be hesitant to call it a 10 Sure. So in order --Q. 10 generalization. I mean, it's --11 -- as opposed to a primary material of A. Q. Can I finish my question, sir? 11 12 interest. 12 A. Yeah. I'm sorry. Sorry. Go ahead. 13 Okay. So in order to be an ore, it has 13 Q. So, again, can you give me a -- can you 14 to be something that's being mined, right? give me a cite that shows that anthophyllite is common 14 15 MS. SCOTT: Objection. 15 in every talc ore mined across the world? 16 A. No. You can have ores that are not being 16 MS. SCOTT: Objection. 17 mined. They're just recognized as ore deposits. I have 17 A. Where does it say that in the report? 18 a book of ore deposits. 18 Q. "Asbestos minerals, including chrysotile, 19 BY MR. FROST: 19 tremolite and actinolite and anthophyllite are common in 20 Q. Okay. It's not this complicated, sir. 20 2.1 Just listen to what I'm saying. Talc ore means 21 A. Are common, yes. You said every talc 22 something different than just a talc, you know, deposit, 22 deposit in the world. 23 a talc formation somewhere. A talc ore is something 23 Q. Well, no. Show me where -- show me in 24 that has been identified as a mineable source of talc. 2.4 there where it says that anthophyllite is common in 25 Are we fair on that? 25 every talc ore across the world.

Page 136 Page 134 A. I think the interpretations of these 1 1 I mean, this is long recognized. 2 thermodynamic diagrams indicate that it's --2 BY MR. FROST: 3 3 Q. So it's purely theoretical? See, that's why -- I fear you're not 4 No. It's experimental. 4 A. listening to my questions. My question is: Depending 5 5 upon the thermodynamics that were in play in creating Q. Okay. 6 6 Is how the diagrams are designed. And any particular deposit, it will be different. And 7 then, essentially, these are peer-reviewed articles that 7 depending on the differences, you will get different 8 are long-standing. So let me just check that to be 8 mineral crystallization within the phases, correct? 9 sure. Yeah, so there's, you know, these different -- so 9 MS. SCOTT: Object to the form. 10 10 Berman '88 is kind of one of these benchmark A. Each situation may be slightly different. 11 11 But the -- to the blunt of the major phases, the thermodynamic databases, and we use these all the time 12 12 thermodynamics is relevant, and actually, you can to understand and predict mineral stabilities and 13 understand and interpret the environments. 13 tweak -- you know, there's other programs that exist. 14 14 So, essentially, through the use of these So, for example, on the igneous field, 15 15 there's a program called MELTS where you can fine tune diagrams over time, we can interpret, you know, the 16 16 condition. So whether it's an ore or talc, you know, is your models. And I think things were being in 17 17 immaterial, the thermodynamics don't, don't really care. development for these. You know, essentially, similar 18 Q. Well, don't you agree with me that 18 types of things exist. There's like geochemist 19 19 depending on the temperature, time and pressure, the workbench and other modeling programs that exist. 20 constituent rock of any particular deposit is going to 20 So, yes, you can -- things will change, 21 be different? I mean, that's what those phrase diagrams 21 but these diagrams are generalizable in the sense that 22 say, right? 22 they can be applied to multiple regions throughout 23 MS. SCOTT: Objection. 23 the -- throughout the world. 24 A. No. The phase diagrams indicate that 24 BY MR. FROST: 25 25 things will be stable under different fields. Q. And that's exactly what I asked you at Page 135 Page 137 the very beginning is these are generalizable tables 1 BY MR. FROST: 1 2 2 Q. That's what I'm talking about. So you'll that you can use to predict what's in a particular 3 have -- different minerals are stable under different 3 deposit? 4 pressures and temperatures, right? 4 A. They're not tables. They're phase 5 5 MS. SCOTT: Objection. diagrams. 6 A. Not -- because of the kinetics, 6 Q. Or figures or phase diagrams. 7 7 A. Yeah. essentially, this lag effect. You know, things are --8 8 Q. But so we're right back to where I that's not necessarily the case. So diamonds, you know, 9 9 started, and that's these are generalization of how the classic example that we use in courses, diamonds are 10 thermodynamically stable deep in the earth. They get 10 phases work that you can use to predict what's in 11 brought up and then they -- thermodynamically, they 11 something, but it's not necessarily saying there is this 12 12 should persist. But because of the kinetics in that constituent in this particular deposit, correct? 13 13 MS. SCOTT: Objection. particular situation, the bonds of the carbon are 14 really, really strong. That diamond doesn't revert to 14 BY MR. FROST: 15 graphite. 15 Q. How the phase operated will affect what's 16 So, essentially, the thermodynamics gives 16 in a particular deposit, right? 17 17 A. So it's really the combination of the us a guide. It is a very, very good guide. But when 18 18 phase diagram. Plus, you know, I keep referring to things cross these boundaries, it takes time to 19 Veblen. 19 essentially equilibrate to the new conditions. And if 2.0 not enough time evolves geologically, things occur such 20 Q. Yeah. 21 21 A. So basically, yeah. So the phase diagram that you get these relic phases. And in the case of is relevant when things are -- assumed to be absolutely 22 talc ores or talc deposits or whatever you want to call 22 23 23 perfect when everything is in thermodynamic equilibrium. that, you can have essentially these relics or asbestos 24 2.4 minerals, chrysotile, for example, that co-occur. So Q. Yes. 25 the thermodynamics basically is -- and people know that. 25 A. And it is relevant when it's not. When

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	Page 138		Page 140
1	things are not or when they're moving, things	1	BY MR. FROST:
2	essentially react and progress slowly. But you can have	2	Q. Then you cite Evans 2004 as the basis for
3	incomplete or imperfect reactions as, you know,	3	that statement?
4	illustrated by the one Buseck paper, the '79 paper.	4	A. Yes.
5	Q. So if you want to predict what's in a	5	MR. FROST: Let's mark this.
6	particular deposit, you have to sort of know what the	6	MR. LAPINSKI: What number is this?
7	time pressure, the metamorphic history of it, when it	7	VIDEOGRAPHER: Nine.
8	formed, how stable it was, what it started from, what	8	MR. FROST: I told you I'd forget.
9	the constituent beginning minerals were, you know. Then	9	(Exhibit 9 was marked for
10	you can apply that to a phase model?	10	identification.)
11	A. If you want to predict I'm sorry.	11	BY MR. FROST:
12	Q. Yeah. And then you can apply it to the	12	Q. Do you recognize this article?
13	phase model, right?	13	A. Yes, I do.
14	A. No.	14	Q. Can you point to me where this article
15	MS. SCOTT: Objection.	15	shows that tale and chrysotile are associated with each
16	A. Well, There's multiple ways of predicting	16	other in deposits?
17	what a deposit would be, and it's scale dependent, phase	17	A. The thing I was referring to is
18	dependent. It's dependent on the geology, and it's	18	concluding remarks. "Despite an up temperature
19	dependent upon tectonics, as well. So there's many	19	transition from lizardite to chrysotile at these
20	things. So as a mineralogist, you know, one thing that	20	temperatures, the latter remains metastable."
21	I would heavily rely on are the phase diagrams.	21	So basically in giving these diagrams,
22	BY MR. FROST:	22	the thermodynamic diagrams, because that metastability,
23	Q. Sure. But you have to know the specific	23	that's the kinetic thing, that's what, essentially, the
24	history of a formation if you want to do an accurate	24	chrysotile would potentially persist.
25	prediction of what's in that particular thing. The	25	Q. Okay. So he's not saying that. You're
	Page 139		Page 141
1	phase diagrams are one of the things you'd look at,	1	just interpreting that from this article? That's not
2	right?	2	his conclusion? That's yours?
3	MS. SCOTT: Objection.	3	A. That is the interpretation of the
4	A. You would use phase diagrams to predict	4	thermodynamic, you know, this article. And I think that
5	potential, potentially what would be in text, because		3 7 7 7
6		5	data supports it as does other, you know, these
J	you have this kinetic issue, right.	5 6	
7	you have this kinetic issue, right. BY MR. FROST:		data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his.
		6	data supports it as does other, you know, these diagrams.
7	BY MR. FROST:	6 7	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his.
7 8	BY MR. FROST: Q. Yeah, and that's based upon the geologic	6 7 8	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting
7 8 9	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that	6 7 8 9	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct?
7 8 9 10	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that formation was formed, temperature, pressure, time, you	6 7 8 9 10	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct? MS. SCOTT: Objection.
7 8 9 10 11	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that formation was formed, temperature, pressure, time, you know, all the things that we've talked about, right? A. You can use the phase diagrams. Also if you have bulk chemistry data if you have bulk	6 7 8 9 10 11	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct? MS. SCOTT: Objection. A. Yes, but I'm citing that.
7 8 9 10 11 12	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that formation was formed, temperature, pressure, time, you know, all the things that we've talked about, right? A. You can use the phase diagrams. Also if you have bulk chemistry data if you have bulk chemistry data, you can use that bulk chemistry data,	6 7 8 9 10 11 12	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct? MS. SCOTT: Objection. A. Yes, but I'm citing that. BY MR. FROST: Q. Okay. Let's move on. The next paragraph, the one that starts "Metamorphic systems." I
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that formation was formed, temperature, pressure, time, you know, all the things that we've talked about, right? A. You can use the phase diagrams. Also if you have bulk chemistry data if you have bulk chemistry data, sort of figure out and do models to see where things are. So you don't necessarily have to know so you can, you an model things, and that model would give you some prediction. Q. If you look at the next sentence, it says, "Talc and chrysotile are associated with each in talc deposits at the micrometer and nanometer scale	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct? MS. SCOTT: Objection. A. Yes, but I'm citing that. BY MR. FROST: Q. Okay. Let's move on. The next paragraph, the one that starts "Metamorphic systems." I believe it's the last sentence. It says, "Reactions can also progress for some period and then revert to asbestiform mineral chrysotile," and it continues because it changes. So, hopefully, you'll agree with me on this one. For it to revert back to chrysotile, it would have to have started as chrysotile, correct?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that formation was formed, temperature, pressure, time, you know, all the things that we've talked about, right? A. You can use the phase diagrams. Also if you have bulk chemistry data if you have bulk chemistry data, sort of figure out and do models to see where things are. So you don't necessarily have to know so you can, you an model things, and that model would give you some prediction. Q. If you look at the next sentence, it says, "Talc and chrysotile are associated with each in talc deposits at the micrometer and nanometer scale making the separation impossible during the mining and	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct? MS. SCOTT: Objection. A. Yes, but I'm citing that. BY MR. FROST: Q. Okay. Let's move on. The next paragraph, the one that starts "Metamorphic systems." I believe it's the last sentence. It says, "Reactions can also progress for some period and then revert to asbestiform mineral chrysotile," and it continues because it changes. So, hopefully, you'll agree with me on this one. For it to revert back to chrysotile, it would have to have started as chrysotile, correct? A. So that is a possibility. You can go
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that formation was formed, temperature, pressure, time, you know, all the things that we've talked about, right? A. You can use the phase diagrams. Also if you have bulk chemistry data if you have bulk chemistry data, sort of figure out and do models to see where things are. So you don't necessarily have to know so you can, you an model things, and that model would give you some prediction. Q. If you look at the next sentence, it says, "Talc and chrysotile are associated with each in talc deposits at the micrometer and nanometer scale	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct? MS. SCOTT: Objection. A. Yes, but I'm citing that. BY MR. FROST: Q. Okay. Let's move on. The next paragraph, the one that starts "Metamorphic systems." I believe it's the last sentence. It says, "Reactions can also progress for some period and then revert to asbestiform mineral chrysotile," and it continues because it changes. So, hopefully, you'll agree with me on this one. For it to revert back to chrysotile, it would have to have started as chrysotile, correct? A. So that is a possibility. You can go from that's what the stability fields are all about.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. FROST: Q. Yeah, and that's based upon the geologic formation, all the other factors that come into how that formation was formed, temperature, pressure, time, you know, all the things that we've talked about, right? A. You can use the phase diagrams. Also if you have bulk chemistry data if you have bulk chemistry data, sort of figure out and do models to see where things are. So you don't necessarily have to know so you can, you an model things, and that model would give you some prediction. Q. If you look at the next sentence, it says, "Talc and chrysotile are associated with each in talc deposits at the micrometer and nanometer scale making the separation impossible during the mining and	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	data supports it as does other, you know, these diagrams. Q. What I'm saying is that's not his. That's not Evans' conclusion. That's you interpreting data within the Evans report, correct? MS. SCOTT: Objection. A. Yes, but I'm citing that. BY MR. FROST: Q. Okay. Let's move on. The next paragraph, the one that starts "Metamorphic systems." I believe it's the last sentence. It says, "Reactions can also progress for some period and then revert to asbestiform mineral chrysotile," and it continues because it changes. So, hopefully, you'll agree with me on this one. For it to revert back to chrysotile, it would have to have started as chrysotile, correct? A. So that is a possibility. You can go

Page 144 Page 142 conditions change back. And, actually, we know this in 1 1 completely new chemical structure of chrysotile, 2 metamorphic rocks, that, essentially, the phase 2 correct? 3 3 assemblage can basically go back and forth, back and --Correct. Not all the time, yeah. 4 it can revert. So I'm specifically -- I'm talking about 4 Okay. Thank you. Bear with me a second 5 here. Okay. Next paragraph down after you cite the 5 reverting on that phase boundary. 6 6 Q. Yes, but it can only revert back to various Imerys documents, you said, "A 1977 thesis by 7 chrysotile if it started at chrysotile, right? 7 Barry Seymour (JNJ 272469) describes the complex 8 A. So that might be a poor phrasing of the 8 mineralogical development of the specific ore." So are 9 9 word, but essentially it's not an inaccurate phrasing. you talking about the specific ore in the Seymour paper 10 10 So when I wrote this, I was thinking of these phase or are you talking about the specific ore at issue in diagrams. 11 11 this case? 12 What I'm getting at is, let's say it 12 A. I forget. Can we bring that document up? 13 started as, you know, a serpentinite or an anthophyllite 13 Yeah, I can get you Seymour. 14 converted to talc. It's not going to then revert back 14 MR. FROST: Would you like a copy? 15 to a different crystal, right? It's not going to --15 MS. SCOTT: Yes, please. Thank you. 16 it's not going to go from anthophyllite to talc to 16 (Exhibit 10 was marked for 17 chrysotile? 17 identification.) MS. SCOTT: Are you marking this? 18 A. Based on the geologic history, there's 18 19 multiple pathways. So it won't revert to the same magic 19 MR. FROST: Yes, I forget what number it 20 crystal, if that's what you're implying. 20 is. 21 Q. So the way -- and I agree with you. It's 21 MS. SCOTT: Ten. 22 very inartfully written here. So you say, "Reactions 22 MR. FROST: Ten. 23 can progress for some period of time and then revert to 23 A. I think "specific" is -- I think it might 24 the mineral chrysotile." So the reactions of talc can 24 be a typo. 25 25 only revert back to chrysotile if that's where they Page 143 Page 145 1 started from, correct? 1 BY MR. FROST: 2 2 MS. O'DELL: Objection to form. Q. Okay. 3 A. So let me just read the sentence before 3 So as I look at this document, I 4 here, because I think -- "Reactions may also be 4 basically remember looking at the introductory material 5 5 incomplete, meaning there may not be enough geologic in it. So --6 time or other chemical component to drive the reaction 6 You'd agree with me it's a thesis about O. the East Johnson mine? 7 7 to completion as discussed in Deer, Howie and Zussman. 8 8 Reactions can also progress for some period of time, I would have to reread the document. 9 9 then revert to asbestiform mineral chrysotile because of If I would represent to you it's about 10 changes in geologic conditions." 10 the East Johnson mine and if you actually look at the 11 So, in part, I think I'm referring to 11 abstract --12 Deer, Howie and Zussman. I don't think I've said 12 A. Foley and Johnson. 13 13 anything inaccurate there. It's not exclusive to --And you'd also agree with me the East 14 BY MR. FROST: 14 Johnson mine was never one that was used for cosmetic 15 Q. I'm trying to clarify --15 talcum powder by Johnson & Johnson, correct? 16 You know, you can have reactions, you 16 MS. O'DELL: Objection to form. 17 17 know, that's not complete. A. It may not have been used, but it is in 18 18 Q. So what I'm getting at, it's a really the same general geology. And, certainly, in geology, 19 19 simple question. The reversion won't always be from it is part of the same general terrane, so therefore, 2.0 talc to chrysotile, right? It will only revert back to 20 it's not exactly like the hammer, the Rainbow mine, but 21 chrysotile if that's where it started. Do you agree 21 it is relevant because it's geologically connected in 22 22 with me there? So while it may be correct that if it the sense of the terranes. 23 23 starts as chrysotile, partially transforms to talc and BY MR. FROST: 24 24 reverts back to chrysotile, that makes sense. But if it Q. So you're telling me that it has the same 25 25 formation as the deposits in the Hammondsville and starts as something else, it's not going to revert to a

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Page 146 Page 148 1 Rainbow mines or are you just saying --1 define the geology as a whole, you know. So they want 2 A. I don't remember specifically, but 2 to know where ore is and where ore is not, if there is 3 3 essentially the geology, so... problematic areas. So, for example, the mine I work 4 Q. The second half of my question, or is it 4 with in Nevada, they have a formation, Stebbins Hill 5 5 more that you're basing it on they're all part of the unit that they avoid, because it's got all kinds of 6 6 ultramafic belt, the Appalachian ultramafic belt that problematic stuff in it. 7 runs from Quebec through Georgia? 7 O. And that's probably a pretty good 8 A. It is more the general geologic 8 example. I take it they -- every now and again, they 9 9 take samples from the problematic portion of that mine, association. 10 10 Q. Okay. That's all I was going to ask correct? 11 11 about that. They sample everything as they go. So 12 A. Page 15 is geologic map of Vermont. It 12 I've seen datasets of 20,000 from a single -- single 13 shows things being connected. 13 14 14 Q. Well, it shows the Appalachian ultramafic So what I'm getting to is just because 15 belt running through Vermont, correct? 15 you have a test of -- you know, a test coming back from 16 16 a mine doesn't necessarily mean that the rock associated Yes. A. 17 17 Turn to page 6 of your report, the with that test makes it into the final product, right? Q. "Common toxic metals of interest." So before we start 18 MS. SCOTT: Objection. 18 19 19 looking at any specific documents, will you agree with A. I don't -- there's no -- I didn't see any 20 me that seeing metals at certain levels in deposit 20 specific chain of custody, so I can't, you know. 21 samples is different than seeing metals in certain 21 BY MR. FROST: 22 levels in a finished talcum powder product? 22 Q. I'm talking from a general perspective. 23 MS. SCOTT: Objection. 23 They're sampling a lot more of the rock than that 24 A. It can be metals in processing. It could 24 ultimately ends up in a final product in a mine, 25 25 be reduced or they could also be increased depending correct? Page 147 Page 149 1 upon the details of the processing. I don't think I saw 1 MS. SCOTT: Objection. 2 A. So there's a difference between coring to 2 any documents, although I requested documents, any 3 3 documents about the detail, you know, before -- before define your geology and then mining -4 and after, kind of full throughput, you know, as far as 4 BY MR. FROST: 5 5 watching a specific sample go through, but, yeah. Q. Uh-huh. That's what I'm saying. 6 6 -- to get your product. BY MR. FROST: 7 Q. So just because you find something here 7 Q. You'd also agree with me, too, that 8 doesn't necessarily mean that that ends up, that 8 sometimes mine samples aren't necessarily from the ore 9 particular test sample ends up in the final ore that 9 that is used in the final product. It might be from a 10 makes it to the grinding process for final talc, 10 boundary. It might be from a surrounding rock, a black 11 correct? wall. Just because you see something in a sample 11 12 MS. SCOTT: Objection. Speculation. 12 doesn't necessarily mean that that's the ore that is 13 A. Yeah. You don't -- that would be 13 then converted over into the final powder as well, 14 speculative or you -- it doesn't mean it doesn't. 14 correct? 15 BY MR. FROST: 15 MS. SCOTT: Objection. 16 Q. But, again, that's why --16 MS. O'DELL: Object to form. 17 So --A. 17 A. I am confused by the question. As I 18 Okay. I'll ask you this way. Does every 18 think I understand you, can contaminants or other 19 single sample that's ever tested in a mine --19 material that is not the primary ore be included in the 20 MS. O'DELL: Excuse me. You guys just --20 ore processing? 21 MR. FROST: Sure. 21 BY MR. FROST: 22 MS. O'DELL: If you'd give him a chance 22 Q. Other way around. When you sample a 23 23 mine, when you drill sample holes, they're not just 24 MR. FROST: I thought he did finish his 24 drilling the mineable ore body, correct? 25 question. 25 A. Generally correct. They're looking to

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	Page 150		Page 152
1	MS. O'DELL: I don't think he did. I'm	1	hypothetical questions here. I'm trying to get down to,
2	sure he needs to give you an opportunity to	2	and again, as part of the mining process, you sample to
3	finish as well	3	determine which parts of the ore you avoid and which
4	MR. FROST: I'm sorry. I thought you had	4	parts of the ore you mine, right?
5	finished your question.	5	A. Yes. That is a common procedure.
6	MS. O'DELL: But you're talking over each	6	Q. So just because a sample comes up and has
7	other. In fact, you just interrupted me.	7	a hit of a particular chemical in it doesn't necessarily
8	A. That's why I was distracted. Can you	8	mean that they then use that as a final product, because
9	restate your question again, please?	9	part of sampling is to tell you what parts of the mine
10	BY MR. FROST:	10	to avoid, right?
11	Q. Sure. So my question is: Every sample	11	MS. SCOTT: Objection.
12	that comes out of a mine doesn't you know, everywhere	12	A. Potentially. But there's reasonable
13	they're sampling, they're doing core outside of the tale	13	risk. If you find it in one spot, it might be near
14	body. They're coring through. They're trying to find	14	another spot. When you have high concentrations, such
15	areas of ore they don't use. Do you agree with all	15	as those observed, it's a natural. Essentially, you
16	these as just general mining concepts?	16	have gradients that occur over some degree of space. So
17	A. Generally.	17	you, you know, so arsenic might have, you know, a
18	Q. Okay.	18	thousand parts per million in one spot and be zero in
19	A. But it go ahead.	19	another, but without, you don't know where to mine,
20	Q. And you also agree with me that,	20	where that's cut cut off.
21	generally, mines aren't just sampling from the ore they	21	BY MR. FROST:
22	are using to put into a final product, correct?	22	Q. But, again, but my question's very easy,
23	MS. SCOTT: Objection.	23	and it's just because you see something here doesn't
24	A. Correct. But that doesn't mean that	24	mean it's there, right? You'd have to know more?
25	that doesn't mean that you're not, when you sample and	25	MS. SCOTT: Objection.
	Page 151		Page 153
1	-	1	
1 2	Page 151 find things like asbestos, it doesn't negate that they exist.	1 2	Page 153 BY MR. FROST: Q. Right?
	find things like asbestos, it doesn't negate that they	1 2 3	BY MR. FROST:
2	find things like asbestos, it doesn't negate that they exist.	3 4	BY MR. FROST: Q. Right?
2 3	find things like asbestos, it doesn't negate that they exist. BY MR. FROST:	2 3 4 5	BY MR. FROST: Q. Right? A. Correct.
2 3 4	find things like asbestos, it doesn't negate that they exist. BY MR. FROST: Q. Okay. Here's my next question: Based on	2 3 4 5 6	BY MR. FROST: Q. Right? A. Correct. Q. Okay. And just because something shows up here doesn't necessarily mean it's going to end up in what becomes the mill feed, right?
2 3 4 5	find things like asbestos, it doesn't negate that they exist. BY MR. FROST: Q. Okay. Here's my next question: Based on that, just because a sample comes back with a particular	2 3 4 5 6 7	BY MR. FROST: Q. Right? A. Correct. Q. Okay. And just because something shows up here doesn't necessarily mean it's going to end up in what becomes the mill feed, right? MS. SCOTT: Objection.
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39 (Pages 150 to 153)

Page 154 Page 156 beforehand, and basically, they walked away with \$50,000 1 1 BY MR. FROST: 2 2 worth of aquamarines. So gem mining certainly is Q. You comment in your report specifically 3 3 something that you could selectively mine. about the beneficiation going on at the Vermont mines. 4 4 So is that not something you're going to opine on here? Gold is another example where there are 5 5 MS. SCOTT: Do you want to point him to deposits in Nigeria where, essentially, groups of women 6 6 the place in his report? go out and they selectively, you know, go through, 7 7 A. Yeah. Sorry. Is this the Colorado mines basically pan and find gold nuggets. I think it's --8 8 you know, it really depends on how you say selective study? 9 mining, and so the thing that, you know -- did I answer 9 BY MR. FROST: 10 10 Q. Yeah, it might be. I don't have it right that? 11 Q. I'm listening to your explanation, yeah. 11 in front of me. It's something that I think we can get 12 12 back to later. But you agree with me as a general A. Okay. So selective mining, I think in 13 mining concept --13 the context of talc deposits, is -- I really don't think 14 you can effectively do it. So with respect to Chinese 14 A. I'd like to see the document. 15 ore that is supposedly hand sorted -- let me find where 15 Yeah. Well, I'm asking you general 16 that section is. So if you're -- yeah, as I understand 16 concepts, because you are giving opinions about the 17 it, they basically look at the rock and say it's okay. 17 mining that was going on at these mines, correct? 18 There's nothing wrong. 18 A. 19 Well, there's several issues with that. 19 Q. And beneficiation is one thing that mines 20 use, correct? 20 So, one, the human eye cannot detect either metals or 21 21 small asbestos fibers by simply looking at, at the rock, A. Yes. 22 Q. And beneficiation can be used to reduce 22 at the surface of the rock, right? So, essentially, you 23 the amount of contaminants that are in an ore, correct? 23 can do it. You can visually inspect the outside of the 24 MS. SCOTT: Objection. 24 material, and you would not be able to visibly see if 25 MS. O'DELL: Objection to form. 25 there's a thousand parts per million of nickel or Page 155 Page 157 1 A. Reduce, but not purify. 1 chromium or some other element. 2 BY MR. FROST: 2 And then, in addition, you can have 3 Q. It can be used to reduce, correct? 3 inclusions of stuff in the rock that you could not --4 MS. SCOTT: Objection. 4 you just physically can't see. So there's a 5 A. Potentially, if executed well. 5 hypothetical risk that you can have inclusion of, let's 6 BY MR. FROST: 6 say, sulfides, a lot of sulfides, a nodule that has a 7 Q. Okay. And selective mining is another 7 lot of sulfides in it, that, in this chunk, you would 8 tactic that can be used in an ore to try to reduce 8 not be able to visually discern what was there. So and 9 contaminates, correct? 9 then, you know, so you basically -- and so that's the 10 MS. SCOTT: Objection. 10 sorting, as I understand it, with China. 11 A. No. There's -- the selective mining was 11 Q. Do you agree with me that -- so, is it 12 an issue, significant issue that I found. And the 12 your opinion that selective mining for talc can never 13 13 work or do you agree with me that selective mining is 14 BY MR. FROST: 14 one of the tools that a mine can use to help to purify Q. I'm asking in general, sir. Can 15 16 selective mining --16 A. I would say in the context of -- in the 17 A. In general, I don't -- you know, I think 17 context of talc, selective mining is not very effective, 18 it really depends on what you mean by "selective 18 because the scale of the issue is with the ore. 19 mining." So I think a good effective example of 19 Q. Okay. Other than your personal opinion, 20 selective mining would be gemstones. So you find a 20 can you cite to me any peer-reviewed or scientific 21 pegmatite. You go -- actually, there was a group that 21 source that supports that? 22 did this a couple years ago. They went to a site in 22 MS. SCOTT: Objection. 23 Colorado. They basically looked at the geology. They 23 A. I don't think there's any peer-reviewed 24 selectively looked at specific lithologies. They were literature that I can think of. I think it's just 24 25 able to narrow it down. They did a lot of research 25 common sense. You know, everyone knows that you can

Page 158 Page 160 1 hide -- you can have inclusions and impurities in an 1 basis of this is Van Gosen 2004. I'm going to mark 2 ore. And if you're only using your eyes and you're only 2 3 3 A. Okay. It's the environmental earth hand sorting things -- plus there's human error. 4 There's just simply human error. If someone, you know, 4 science paper? 5 5 is, you know -- they'll just make mistakes. Q. What's that? 6 6 A. It's the environmental earth science And then the other issue I think is unclear, I didn't find any degree of training, you know, 7 7 paper? It's the journal? 8 or no description of the training methods that were used 8 Q. Yes. Environmental Geology, 2004. 9 9 A. Oh, yeah. That's currently -- the for hand sorting. So an ore-controlled geologist is a 10 journal name changed. I had a few papers in it. Is 10 common, common position in mines. 11 One of my former students, he's an 11 there a copy of it? 12 ore-controlled geologist in Stillwater, and it takes 12 Q. The court reporter's marking it. 13 three months of training for them to delineate the ore. 13 (Exhibit 11 was marked for 14 identification.) So that is an example of selective mining, but there's a 14 15 high level of effort that goes into it, and the goal is 15 BY MR. FROST: 16 platinum. And, basically, the way that particular mine 16 Q. Since we've already established we're talking about the same paper, can you show me anywhere 17 is set up is to extract the platinum. They're not 17 18 really -- they don't have to worry about other 18 in this paper that Van Gosen specifically speaks about 19 19 any of the mines that you've listed here in your report? contaminants that might be present. 20 BY MR. FROST: 20 A. Correct. No specific mine is listed. It 21 Q. Okay. I'm going to stop you because we 21 talks about Vermont talc, in general. 22 keep getting off on a lot of these tangents. My 22 (Exhibit 12 was marked for 23 question was: Can you point me to any mining studies or 23 identification.) 24 anything else that say that selective mining does not 24 BY MR. FROST: 25 25 Q. I've now marked the Ross article. It's work for talc? Page 159 Page 161 1 A. I know of no peer-review publications. 1 Ross 74. "Environmental Health Perspectives." She's 2 Q. Okay. Thank you. Turn to page 7 of your 2 already marked it for you. 3 report. It's 7 into 8, actually. You know, we start 3 Oh. A. 4 talking about the various regions that talc is sourced 4 Q. Same question. Can you show me where in 5 from, correct? 5 this article it details any mine actually used by 6 6 A. Yes. Johnson & Johnson? 7 7 Okay. On page 7 to 8, you list various MS. SCOTT: Objection. 8 8 time frames and various mines, you know, from which you A. I don't see mention of a specific mine. 9 believe. I take it this came from your review of the 9 BY MR. FROST: documents, the timeline that you put forth here? 10 10 Q. Next, I'm going to mark -- I'm sorry. A. Just give me a moment to review. 11 11 A. Go ahead. Q. The easier way to ask is: Is this 12 12 I didn't mean to cut you off if you 13 13 something that was provided to you or is this something weren't done. Next I'm going to mark Document 14 that you came up with yourself? 14 JNJ 000521616, the first page of it, anyway. 15 A. I came up with it. 15 (Exhibit 13 was marked for 16 Q. Okay. So at the very end of it, so we 16 identification.) 17 talked about all the various mines, and afterwards, you 17 BY MR. FROST: 18 have a sentence that reads, "These mines are known to 18 Q. Do you remember looking at this document? 19 have impurities associated with talc, including toxic 19 A. Actually, I'm unsure. 20 metals, chrysotile, and amphibole asbestos." Do you see 20 Q. Okay. 21 that? 21 A. I might have used the wrong number. 22 MS. O'DELL: Objection to form. 22 Okay. But you agree with me this doesn't A. Yes. 23 23 talk about any of the mines, certainly, right? BY MR. FROST: 24 Right. Yeah. 24 25 25 Q. Okay. So the first thing you note as the MS. SCOTT: Object to form.

	Page 162		Page 164
1	MS. O'DELL: Object to form.	1	as amphibole and grit and stuff like that, correct?
2	A. Correct. I I haven't I don't think	2	A. So, for example, the one ending in 87231,
3	I've seen this. I think I used there's a typo or	3	"Battelle Memorial Institute document dated 1958,
4	something in there. Sorry.	4	indicated the presence of tremolite in the talc,
5	BY MR. FROST:	5	commonly at levels ranging from 1-3 percent. That
6	Q. No. That's okay. That's why we're	6	document also studied the abrasiveness and grit of
7	that's why we're doing this.	7	Italian talc." So that's something, that the grit is in
8	All right. If you turn to page 14 of	8	addition to the finding of tremolite.
9	your report under, "Evidence that Asbestos Occurred in	9	Q. Do you agree with me that none of these
10	Defendants' Mines." The first sentence reads, "The	10	documents actually find asbestos or define that they
11	documents I reviewed provided strong evidence that the	11	have found asbestos in any of the ore from Italy?
12	talc used by Imerys and Johnson & Johnson to produce	12	MS. O'DELL: Object to the form.
13	Johnson's Baby Powder and Shower to Shower came from	13	A. I would want to double-check all of
14	mines that contained asbestos minerals or fibrous talcum	14	these, but they do two things. The last one, presence
15	in an asbestiform habit." Did I read that right?	15	of tremolite and actinolite and, also, tremolite and one
16	A. Yes.	16	that I just mentioned. And tremolite is a recognized
17	Q. And looking back, you cite the same exact	17	as a carcinogen by IARC 2012.
18	documents as we just as the last sentence, correct?	18	Q. Can you show me anywhere in your report
19	MS. SCOTT: Objection.	19	that you note that tremolite is found by IARC to be a
20	A. It's in the report.	20	potentially dangerous mineral, you know, a human
21	BY MR. FROST:	21	carcinogen?
22	Q. Yeah. Okay. And you'd agree with me,	22	(Exhibit 14 was marked for
23	you know, that these materials don't actually relate	23	identification.)
24	directly to the mines used by Johnson & Johnson as	24	A. I can't find a specific example.
25	identified on pages I believe it's 7 and 8 of your	25	
	identified on pages I believe it's 7 and 8 of your Page 163	25	Page 165
		25	
25	Page 163 report, right? MS. SCOTT: Objection.		Page 165
25	Page 163 report, right? MS. SCOTT: Objection. MS. O'DELL: Objection to form.	1	Page 165 BY MR. FROST:
25 1 2	report, right? MS. SCOTT: Objection. MS. O'DELL: Objection to form. A. I would have to read double I would	1 2	Page 165 BY MR. FROST: Q. And you're not qualified to say whether
25 1 2 3	Page 163 report, right? MS. SCOTT: Objection. MS. O'DELL: Objection to form.	1 2 3	Page 165 BY MR. FROST: Q. And you're not qualified to say whether or not a particular mineral would be harmful, you know,
25 1 2 3 4 5 6	report, right? MS. SCOTT: Objection. MS. O'DELL: Objection to form. A. I would have to read double I would want to double-check each individual document. BY MR. FROST:	1 2 3 4	Page 165 BY MR. FROST: Q. And you're not qualified to say whether or not a particular mineral would be harmful, you know, as a human carcinogen. You have no basis by which to
1 2 3 4 5 6 7	report, right? MS. SCOTT: Objection. MS. O'DELL: Objection to form. A. I would have to read double I would want to double-check each individual document.	1 2 3 4 5	Page 165 BY MR. FROST: Q. And you're not qualified to say whether or not a particular mineral would be harmful, you know, as a human carcinogen. You have no basis by which to say that's correct or not correct, right?
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42 (Pages 162 to 165)

	Page 166		Page 168
1	BY MR. FROST:	1	BY MR. FROST:
2	Q. So this first one, can you tell me	2	Q. But it's JNJAZ55_6104. I think it starts
3	anywhere in the Battelle report that starts JNJ 87868,	3	at 6103, but 6104 is the letter. The one, two, three
4	that they note the trace amounts of amphibole are	4	fourth paragraph down says, "I have also checked into
5	asbestiform in any way?	5	the mineralization of that part of the territory, and
6	MS. O'DELL: Object to the form.	6	the minerals which show in the valley are: Talc,
7	A. No, I don't.	7	pyrite," magnesite sorry, "magnetite, calcite,
8	BY MR. FROST:	8	dolomite, apatite, clinochlore," sorry, "chrysotile,"
9	Q. Okay. Turn to tab 2, which is the	9	and then, you know, talks about others, including
.0	document starts JNJ 87231. Same question. Can you tell	10	tremolite, actinolite, correct?
1	me anywhere in here where, I believe it's Battelle	11	A. Yes.
.2	again, identifies finding any asbestiform mineral?	12	Q. And this is talking about the valley.
.3	MS. SCOTT: Objection.	13	There is nothing in here that indicates that this is
. 4	A. So tremolite is noted as trace on page 4	14	talking specifically about the Fontaine mine, correct?
.5	here.	15	MS. SCOTT: Objection.
.6	BY MR. FROST:	16	MS. O'DELL: Objection.
. 7	Q. Does it note the trace tremolite has	17	A. It's unclear.
.8	asbestiform?	18	BY MR. FROST:
.9	A. No, it does not.	19	Q. Dr. Ashton also isn't saying that any of
:0	Q. So you'd have no way to tell whether or	20	these minerals have been found in the ore coming from
1	not it's asbestiform or non-asbestiform based on this	21	the Fontaine mine, correct?
2	document?	22	MS. O'DELL: Objection to form.
:3	MS. O'DELL: Object to form.	23	MS. SCOTT: Objection.
4	MS. SCOTT: Objection.	24	A. Correct, but mineralization of that part
			7 t. Correct, but immerunzation of that part
. <u>4</u> !5	A. The it has been so, "The amphibole	25	of the territory. So
<mark>:5</mark>	A. The it has been so, "The amphibole Page 167		Page 169
1	A. The it has been so, "The amphibole Page 167 component has been established to be the variety of	1	Page 169 BY MR. FROST:
1 2	A. The it has been so, "The amphibole Page 167 component has been established to be the variety of tremolite." Yeah. It does not say that it is asbestos	1 2	Page 169 BY MR. FROST: Q. But there can be different mineral
1	A. The it has been so, "The amphibole Page 167 component has been established to be the variety of tremolite." Yeah. It does not say that it is asbestos form, but it is tremolite.	1 2 3	Page 169 BY MR. FROST: Q. But there can be different mineral profiles throughout the valley depending on when it
1 2 3	A. The it has been so, "The amphibole Page 167 component has been established to be the variety of tremolite." Yeah. It does not say that it is asbestos form, but it is tremolite. BY MR. FROST:	1 2 3 4	Page 169 BY MR. FROST: Q. But there can be different mineral profiles throughout the valley depending on when it formed, what it formed from?
1 2 3 4	A. The it has been so, "The amphibole Page 167 component has been established to be the variety of tremolite." Yeah. It does not say that it is asbestos form, but it is tremolite. BY MR. FROST: Q. Okay. Turn to tab 17 or sorry, tab 3.	1 2 3	Page 169 BY MR. FROST: Q. But there can be different mineral profiles throughout the valley depending on when it
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1 2 3 4 5 6	A. The it has been so, "The amphibole Page 167 component has been established to be the variety of tremolite." Yeah. It does not say that it is asbestos form, but it is tremolite. BY MR. FROST: Q. Okay. Turn to tab 17 or sorry, tab 3. It's the document Bates numbered JNJAZ55_213. And, again, I think it mentions tremolite	1 2 3 4 5 6	Page 169 BY MR. FROST: Q. But there can be different mineral profiles throughout the valley depending on when it formed, what it formed from? A. Yes, and it could be present because of the association observed. Q. Unfortunately, there's just no way to tell from this document, correct?
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43 (Pages 166 to 169)

	Page 170		Page 172
1	one?	1	formed from the amphibole mineral found at the mine were
2	A. Yeah.	2	hardly fibrous in character, the majority of the
3	Q. The quality's bad.	3	tremolite breaking to give compact particles," correct?
4	A. Oh, there's you can see chrysotile.	4	A. It also said, "Those fibres formed were
5	"Examples of commercial amphibole and chrysotile	5	short and had a very large diameter." So fibers were
6	asbestos particles together with typical selected area	6	formed. But, yeah, you're correct.
7	electron diffraction patterns." Yeah. So the images	7	Q. So, again, it's his opinion that there
8	are here, but, yeah. So, yeah. That's right. That	8	was no asbestos in that test, correct?
9	page you can't tell.	9	MS. O'DELL: Object to the form.
10	MS. O'DELL: What page are you on?	10	MS. SCOTT: Objection.
11	THE WITNESS: I'm on Page 56. I'm sorry.	11	BY MR. FROST:
12	MS. O'DELL: Yeah. No, no. I'm just	12	Q. But that the tremolite was not
13	trying to follow along. You go where you need	13	asbestiform. I think they were just called the
14	to go.	14	amphibole, but the amphibole that he found was not
15	A. Amosite asbestos particles there.	15	asbestos, correct?
16	BY MR. FROST:	16	A. Correct.
17	Q. Again, the chrysotile you pointed out on	17	Q. Turning back to your report, page 10, the
18	56, he's showing you an example of what a commercial	18	"Mines in Vermont." So I think we talked about it a
19	chrysotile looks like, right, not a picture of what came	19	little bit, but I think you and I will agree the
20	from the talc. Do you agree?	20	Appalachian ultramafic belt is where the talc is found
21	MS. O'DELL: Object to the form.	21	in Vermont, correct? I think it's your second sentence.
22	A. What's your question?	22	A. Yes. Yeah.
23	BY MR. FROST:	23	Q. Now, do you have the opinion that all the
24	Q. When you just talked about 56, the	24	ultramafic rocks within the Appalachian belt had the
25	picture of chrysotile you're talking about is a	25	same general metamorphic histories and formation
25 ——	picture of chrysotile you're talking about is a Page 171	25	same general metamorphic histories and formation Page 173
25		25 1	
	Page 171		Page 173
1	Page 171 reference to	1	Page 173 histories and profiles?
1 2	Page 171 reference to A. I just recognized it.	1 2	Page 173 histories and profiles? A. No. There would be some variability.
1 2 3	Page 171 reference to A. I just recognized it. Q. Okay.	1 2 3	Page 173 histories and profiles? A. No. There would be some variability. Q. Okay. I agree with you. So have you
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1 2 3 4 5 6	Page 171 reference to A. I just recognized it. Q. Okay. MS. O'DELL: Object to the form. BY MR. FROST: Q. So if you look at the fourth paragraph	1 2 3 4 5	histories and profiles? A. No. There would be some variability. Q. Okay. I agree with you. So have you ever looked at the local geology for the formation associated with the Hammondsville mine? A. I've never been on site. I've never been
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	reference to A. I just recognized it. Q. Okay. MS. O'DELL: Object to the form. BY MR. FROST: Q. So if you look at the fourth paragraph down on page 121, Pooley's page 121, it's page 210 of the Bates number. The conclusion is "The only asbestos-type mineral to be detected in the hand samples was tremolite, which was found in three specimens." If you go down to the next sentence, it says, "no tremolite was detected in the talc-type specimens." Is that right? MS. O'DELL: Object to the form. A. That's what it says, yes. BY MR. FROST: Q. Okay. So, again, Pooley did not find any tremolite in the actual ore or the talc, correct? MS. O'DELL: Object to the form. MS. SCOTT: Objection. A. As it reads, yes. BY MR. FROST:	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	histories and profiles? A. No. There would be some variability. Q. Okay. I agree with you. So have you ever looked at the local geology for the formation associated with the Hammondsville mine? A. I've never been on site. I've never been to the mine. Q. Have you ever looked at any geological survey specific to the Hammondsville mine deposit? A. The Hammondsville? Q. Yes. A. Yeah. Yeah. I see its geological survey. Q. I see the one you've typed here. That's really just geological survey showing you where it is, correct? That doesn't tell you about the morphology and the geological deposit formation? A. I think there's some geologic data that's associated with it. I don't remember specifics. Q. Okay. So and this is true for — it's 27, 28, 29 and 30, your footnotes, correct? These are all, you know, USGS website hits for Hamm, et cetera?

44 (Pages 170 to 173)

	Page 174		Page 176
1	talc in these particular mines?	1	geological survey?
2	A. I believe I have.	2	A. As stated, yeah.
3	Q. Do you recall which ones they are?	3	Q. Any reason this would not have come up in
4	A. Not specifically at the moment.	4	your search?
5	MS. SCOTT: Before you get into this	5	MS. SCOTT: Objection.
6	next	6	A. I didn't search for this particular
7	MR. FROST: Do you want to take a break?	7	document. When I was doing my search for the
8	MS. SCOTT: Yeah, let's do that. We've	8	peer-review literature, you know, I use, like, Web of
9	been going about an hour and a half, I think, is	9	Science. So Web of Science has, essentially, this
10	that right, or about an hour?	10	higher level of peer-review material. So this isn't
11	MS. O'DELL: Hour and 13 minutes.	11	necessarily these types of reports aren't included in
12	VIDEOGRAPHER: We're now going off the	12	that, but I did use Google to search things, and that's
13	record. The time is 2:39.	13	how I found some of the other things. So but, no, I
14	(A recess was taken from 2:39 to 2:58)	14	don't believe that I've seen this report.
15	VIDEOGRAPHER: We're now back on record,	15	BY MR. FROST:
16	and the time is 2:58.	16	Q. Okay. Given your rendering opinions
17	(Exhibit 15 was marked for	17	about the geology specifically at the Vermont talc
18	identification.)	18	deposits, any particular reason you didn't search the
19	BY MR. FROST:	19	geological surveys, the USGS surveys regarding the
20	Q. All right. I'm going to start can you	20	areas?
21	grab, I think, number 15? It's the 1951 geological	21	MS. SCOTT: Objection.
22	survey from Chidester. Have you ever seen this article	22	A. I looked at the literature that I thought
23	before?	23	was relevant, based on my professional opinion.
24	A. I don't remember. Let me look at my	24	BY MR. FROST:
25	references, the author or the agency. It doesn't appear	25	Q. The next one marked. Take a look at
	Page 175		Page 177
1	to be on my reference list.	1	yep, the next one.
2	Q. Okay. Turn to page 28 of the report.	2	MS. O'DELL: What's the exhibit number on
3	MS. SCOTT: And, Doctor, feel free to	3	this one?
4	take a look at the entirety of the report if you	4	MR. FROST: Sixteen.
5	need to.	5	(Exhibit 16 was marked for
6	A. Okay. I'm not sure.	6	identification.)
7	MS. SCOTT: Do you have one?	7	BY MR. FROST:
8	MR. FROST: Do you need a copy?	8	Q. And, again, this is Chidester 1964.
9	MS. SCOTT: Yes.	9	A. It's the geological survey. Let me check
10	MR. FROST: I apologize.	10	and see if I have that. It doesn't look like I have
11	MS. SCOTT: That's okay. Thanks.	11	that in the reference list.
12	MR. FROST: You're welcome. Sorry about	12	Q. Turn to pages
13	that.	13	A. So let me look. Can I look at the report
14	MS. SCOTT: No problem.	14	and
15 16	BY MR. FROST:	15 16	Q. Yes.
16 17	Q. And my question about this paper is: You agree with me, turning to page 28, that this geological	17	A just see what the nature is? Q. Sure. And, specifically, I'm going to
18	survey specifically talks about the Hammondsville talc	18	turn your attention to 48 and 49.
19	mine, correct?	19	A. 48 and 49, okay. Let me look at the
20	A. Turn to page 28. Let's see here.	20	report in general here.
21	Q. About halfway down the first column,	21	Q. The question, then, is going to be: You
22	"Hammondsville talc quarry, Locality 117."	22	agree with me that in this USGS survey, they
23	A. 28, Locality 117. Okay. I see that.	23	specifically ran chemical analysis of ore coming out of
24	Q. So you agree with me this paper talks	24	the Hammondsville mine? I guess it's typed ore mill
25	about the Hammondsville talc mine, correct, this	25	product.
			-

	Page 178		Page 180
1	A. Yes. It says, "Chemical analyses of a	1	MS. O'DELL: Let him finish.
2	variety of talc in Vermont," and the year on this is	2	A. Power diffraction was beginning to be
3	well, I'm sorry.	3	common and then chemical analyses. So I didn't
4	O. I believe it's 19	4	necessarily exclude it based on or I didn't really
5	A. So 40a, 40b and 40c. The source is from	5	I just I didn't find it, but I didn't you know,
6	Spence, so let's see what Spence 1940 is. So at that	6	these are older references and I would not
7	period of time, most things were done by wet chemistry,	7	BY MR. FROST:
8	and so the there were limitations as far as the	8	Q. That was question is you didn't find
9	detection limits. So I'm sorry. 1940.	9	this, right?
10	Q. Well, again, my question	10	MS. SCOTT: Objection.
11	A. Yeah. Go ahead with your question.	11	A. I did not search for a lot of the older
12	Q. Despite the fact that there is specific	12	literature because the analytical methods dated,
13	testing of ore in this document as well as Spence,	13	predated what appear to be the operational operation
14	neither of those two documents ever came up in your	14	timelines or
15	searches, correct?	15	BY MR. FROST:
16	MS. SCOTT: Objection.	16	Q. But it doesn't sound like you searched
17	BY MR. FROST:	17	for any USGS surveys regarding these specific mines; is
18	Q. And this is testing specific to the ore	18	that fair? That wouldn't have come up in your search?
19	from the Hammondsville mine. Do you agree with me that	19	MS. SCOTT: Objection.
20	neither Spence nor this paper came up in your searches?	20	A. So specific mines may not they're not
21	A. Correct. I mean, you know, so one of the	21	necessarily in USGS reports. Mines tend to show up in
22	things is that it depends	22	USGS reports if there's permission or
23	Q. Well, answer my question.	23	BY MR. FROST:
24	A. Yep. I'm seeing if it it's not	24	Q. Sir, I have a limited amount of time, and
25	actually, Spence is not cited in this document.	25	I really need you to just answer my questions. So my
	Page 179		Page 181
1	Q. It appears to be. Spence?	1	question is
2	A. Pearre, Pearre, Pearre, Perry,	2	A. I'm trying to give a thorough answer.
3	Pratt, Quinn.	3	Q. No, no. The question is it's a very
4	Q. If you at page 61, Spence, HS 1940.	4	simple question. Did you search USGS reports for the
5	A. It's not listed in the	5	specific mines that Johnson & Johnson used in Vermont?
6	Q. Page 61, selected bibliography?	6	MS. SCOTT: Objection.
7	A. 61. I'm sorry. I don't see it. Oh,	7	A. I don't remember.
8	Spence. I was thinking Pence. Okay. Right. Very	8	BY MR. FROST:
9	good.	9	Q. Okay. And you certainly didn't cite
10	Q. Okay.	10	them.
11	A. So, essentially, the I don't think the	11	A. I did not cite these. I did not cite
12	company was mining Hammondsville at that time, was it?	12	these.
13	Q. My question becomes, did these come up	13	Q. Do you know what NIOSH is?
14	despite the fact that there's testing specifically of	14	A. Yes.
	ore from Hammondsville in both Spence and this, this	15	Q. Okay. Are you aware that NIOSH has
15			funded an epidemiological study based out of the workers
15 16	report did not come up or the Spence report come up in	16	
		17	of the Vermont mines?
16	report did not come up or the Spence report come up in your searches; is that correct? MS. SCOTT: Objection.	17 18	of the Vermont mines? MS. SCOTT: Objection.
16 17	report did not come up or the Spence report come up in your searches; is that correct? MS. SCOTT: Objection. A. Correct, because the analytical	17 18 19	of the Vermont mines?
16 17 18	report did not come up or the Spence report come up in your searches; is that correct? MS. SCOTT: Objection. A. Correct, because the analytical techniques at the time, certainly for electron	17 18	of the Vermont mines? MS. SCOTT: Objection.
16 17 18 19	report did not come up or the Spence report come up in your searches; is that correct? MS. SCOTT: Objection. A. Correct, because the analytical	17 18 19	of the Vermont mines? MS. SCOTT: Objection. A. I'm not a medical expert. I only know
16 17 18 19 20	report did not come up or the Spence report come up in your searches; is that correct? MS. SCOTT: Objection. A. Correct, because the analytical techniques at the time, certainly for electron	17 18 19 20	of the Vermont mines? MS. SCOTT: Objection. A. I'm not a medical expert. I only know NIOSH really exists. I use it for the basic definition.
16 17 18 19 20 21 22 23	report did not come up or the Spence report come up in your searches; is that correct? MS. SCOTT: Objection. A. Correct, because the analytical techniques at the time, certainly for electron microscopy, was in its infancy. Power diffraction	17 18 19 20 21 22 23	of the Vermont mines? MS. SCOTT: Objection. A. I'm not a medical expert. I only know NIOSH really exists. I use it for the basic definition. BY MR. FROST: Q. So is that a no? A. I'm sorry. Repeat the question, please.
16 17 18 19 20 21 22	report did not come up or the Spence report come up in your searches; is that correct? MS. SCOTT: Objection. A. Correct, because the analytical techniques at the time, certainly for electron microscopy, was in its infancy. Power diffraction was	17 18 19 20 21 22	of the Vermont mines? MS. SCOTT: Objection. A. I'm not a medical expert. I only know NIOSH really exists. I use it for the basic definition. BY MR. FROST: Q. So is that a no?

46 (Pages 178 to 181)

1	Page 182		Page 184
1	mines?	1	explanations about other parts of the report that don't
2	A. No I am not. I don't remember.	2	have to do with question are just taking up my time on
3	MR. FROST: We'll mark this as I	3	the record. So I'm not trying to be rude, but I'm
4	believe this is new 17.	4	running out of time, so I'm trying to move it along.
5	(Exhibit 17 was marked for	5	MS. SCOTT: But to be fair, you're also
6	identification.)	6	asking him about an epidemiological study. He's
7	BY MR. FROST:	7	not an epidemiologist.
8	Q. Have you ever seen this paper? Do you	8	BY MR. FROST:
9	know who Dr. Boundy is?	9	Q. And my question was whether or not this
10	A. So what is the journal? I don't have it	10	was something he would have searched for, and the answer
11	cited as Boundy. The journal is this a National	11	is no, right?
12	Institutes of Health paper, just so I can be sure?	12	A. No. I would not go to a journal called
13	Q. I believe it is a journal called Dust and	13	Dust and Disease. Are you okay on time?
14	Disease.	14	Q. You don't need to worry about that.
15	A. Oh, I don't think I cited anything from	15	That's a lawyer thing.
16	Dust and Disease.	16	MS. O'DELL: Yes.
17	Q. Okay.	17	BY MR. FROST:
18	A. So in occupational exposures,	18	Q. Turning back to your report, looking at
19	non-asbestiform talc in Vermont. Okay?	19	the bottom of page 10, we then move on to the mines in
20	Q. Is this not something that came up in	20	China.
21	your search?	21	A. I requested documents on I requested
22	MS. SCOTT: Objection.	22	documents on China, mines in China. There were
23	A. No. I'm not I'm sorry. Dust and	23	apparently, there was not a whole lot of information. I
24	Disease?	24	know Dr. Longo tested materials from China, but I don't
25	D. Location 1	25	think I mean, I made a request for cores. I made
Ì	Page 183		Page 185
1	BY MR. FROST:	1	requests for testing results, including TEM, XRD, bulk
2	Q. That's correct.	2	chemistry. But the data that I was able to have was, as
3	A. Yeah. I'm not a medical	3	far as I did actually, I tried to search on Web of
4	Q. So you wouldn't have	4	Science and other things about talc deposits in China,
5	A expert.	5	and I could not discernibly find anything. I think
6	0 0		and I could not discerniory find anything. I think
	Q. Sorry.	6	there's Chinese references, but I don't speak Chinese
7	Q. Sorry.A. So I'm not a medical expert, so I didn't.		
		6	there's Chinese references, but I don't speak Chinese
7	A. So I'm not a medical expert, so I didn't.	6 7	there's Chinese references, but I don't speak Chinese and
7 8	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various	6 7 8	there's Chinese references, but I don't speak Chinese and Q. Sure.
7 8 9 10 11	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based	6 7 8 9	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those.
7 8 9 10 11 12	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based on the NIOSH study. It's not something you relied on?	6 7 8 9 10	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those. Q. And by saying you asked, you asked
7 8 9 10 11	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based on the NIOSH study. It's not something you relied on? A. So there's	6 7 8 9 10 11	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those. Q. And by saying you asked, you asked plaintiffs' counsel, and they provided you what they
7 8 9 10 11 12 13	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based on the NIOSH study. It's not something you relied on? A. So there's MS. O'DELL: Object to the form. Excuse	6 7 8 9 10 11 12	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those. Q. And by saying you asked, you asked plaintiffs' counsel, and they provided you what they provided you, correct?
7 8 9 10 11 12 13 14	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based on the NIOSH study. It's not something you relied on? A. So there's MS. O'DELL: Object to the form. Excuse me, Doctor. Object to the form. You may	6 7 8 9 10 11 12 13	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those. Q. And by saying you asked, you asked plaintiffs' counsel, and they provided you what they provided you, correct? MS. SCOTT: Objection.
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7 8 9 10 11 12 13 14 15 16	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based on the NIOSH study. It's not something you relied on? A. So there's MS. O'DELL: Object to the form. Excuse me, Doctor. Object to the form. You may answer. A. In all these questions are still I did	6 7 8 9 10 11 12 13 14 15	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those. Q. And by saying you asked, you asked plaintiffs' counsel, and they provided you what they provided you, correct? MS. SCOTT: Objection. A. Yeah. So I want to use company documents, so give the company, essentially, as I
7 8 9 10 11 12 13 14 15 16 17	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based on the NIOSH study. It's not something you relied on? A. So there's MS. O'DELL: Object to the form. Excuse me, Doctor. Object to the form. You may answer. A. In all these questions are still I did not look at this paper, but this paper does not negate	6 7 8 9 10 11 12 13 14 15	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those. Q. And by saying you asked, you asked plaintiffs' counsel, and they provided you what they provided you, correct? MS. SCOTT: Objection. A. Yeah. So I want to use company documents, so give the company, essentially, as I believe I was supposed to do, so the company documents
7 8 9 10 11 12 13 14 15 16 17 18	A. So I'm not a medical expert, so I didn't. Q. So you wouldn't have looked at any journals outside of your specific field, because I will relate to you that they tested talc from the various mines and found that there was no asbestos in it based on the NIOSH study. It's not something you relied on? A. So there's MS. O'DELL: Object to the form. Excuse me, Doctor. Object to the form. You may answer. A. In all these questions are still I did not look at this paper, but this paper does not negate the findings of the rest of the report. I've tried to	6 7 8 9 10 11 12 13 14 15 16 17	there's Chinese references, but I don't speak Chinese and Q. Sure. A I couldn't really translate those. Q. And by saying you asked, you asked plaintiffs' counsel, and they provided you what they provided you, correct? MS. SCOTT: Objection. A. Yeah. So I want to use company documents, so give the company, essentially, as I believe I was supposed to do, so the company documents are I mean.
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	Page 186		Page 188
1	BY MR. FROST:	1	metal contents like lead, cobalt, chromium, iron, nickel
2	Q. I'm talking about documents.	2	and titanium, correct?
3	A. The documents?	3	A. Correct.
4	Q. Yes. You have no way of knowing if what	4	Q. And then you cite to JNJ 59273, right?
5	plaintiffs gave you is the complete set of documents	5	A. Right.
6	that relate to the mine, right?	6	Q. Okay. Let's look at that document.
7	A. I expected	7	A. It's got 750 parts per million of
8	MS. SCOTT: Objection.	8	titanium in it. It's actually low. It's like .2.
9	A. Yeah. Of all the documents that exist, I	9	(Exhibit 18 was marked for
10	expect that it's not each and every single document.	10	identification.)
11	BY MR. FROST:	11	BY MR. FROST:
12	 Q. So you've made your review and your 	12	Q. I'll divert your attention to page 2086.
13	opinions on the China based on what is admittedly an	13	I take it the comment at the bottom of 2086 is where
14	incomplete set of documents provided to you by	14	you're getting this information from, right?
15	plaintiffs' counsel, right?	15	MS. SCOTT: Objection.
16	MS. SCOTT: Object to the form.	16	A. I looked at the data. Actually, I'm
17	A. I don't know if it's fully I made	17	looking for the data table that I saw the other day.
18	requests for the China for as much all the	18	Yeah, so 2078, titanium 750. The lead there is 12.7 on
19	information on China that there was and, to my	19	the previous table. Let's look and see what the
20	knowledge, what was provided, and then what I looked at,	20	concentrations are.
21	I tried to search things on my own. There just is	21	BY MR. FROST:
22	apparently not a lot I would consider. I would	22	Q. You're on 2078?
23	certainly consider reviewing documents on China. I	23	A. I am on 2078.
24	would certainly consider translated documents, so	24	Q. Okay.
25	someone who's got an expertise but	25	A. And so
	Page 187		Page 189
1	BY MR. FROST:	1	Q. Do you see the top of 2078 that that
2	Q. Again, I'm trying to rein in your answers	2	chart relates to something called "Kwangsi No. 1 talc"?
3	here	3	
2)	A. Yes.
4	A. Okav.	4	
	A. Okay. O to what we're talking about. But I		Q. Do you believe that Kwangsi No. 1 talc
4	Q to what we're talking about. But I	4	
4 5	Q to what we're talking about. But I want to be clear. The requests you made weren't to	4 5	Q. Do you believe that Kwangsi No. 1 talcwas the talc ever used by Johnson & Johnson?A. It's unclear. I don't.
4 5 6	Q to what we're talking about. But I	4 5 6	Q. Do you believe that Kwangsi No. 1 talcwas the talc ever used by Johnson & Johnson?A. It's unclear. I don't.
4 5 6 7	Q to what we're talking about. But I want to be clear. The requests you made weren't to either Imerys or Johnson & Johnson. You made those requests to plaintiffs' counsel?	4 5 6 7	Q. Do you believe that Kwangsi No. 1 talcwas the talc ever used by Johnson & Johnson?A. It's unclear. I don't.Q. Well, in your report, I think you note
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. — to what we're talking about. But I want to be clear. The requests you made weren't to either Imerys or Johnson & Johnson. You made those requests to plaintiffs' counsel? A. Yes. Q. And then plaintiffs' counsel provided back to you a set of documents? A. Yes. Q. And you can't tell me whether or not that set consists of all documents that you requested related to the Chinese mines, right? MS. SCOTT: Objection. A. I cannot without certainty. BY MR. FROST: Q. All right. So let's look at what you opine. Page 11, the second paragraph, you state, as far back as 1983, and again, we know in 1983, Johnson & Johnson was not sourcing talc from China, right?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Do you believe that Kwangsi No. 1 talc was the talc ever used by Johnson & Johnson? A. It's unclear. I don't. Q. Well, in your report, I think you note that they use Kwangsi No. 1 and Kwangsi No. 2, correct? A. Correct. MS. O'DELL: Objection. A. I think again, I'm not an expert in Chinese language. BY MR. FROST: Q. But you'd agree with me that Kwangsi No. 1 is not Kwangsi talc, correct? It's a different ore? A. I don't really know. Names of mines change and things, but, potentially, they seem different. That's reasonable. But in my sentence, I say defense information indicating that Chinese talc contains higher than normal levels and, you know, the metals are there. So I think that statement is consistent with the chart on page 2078 and 2086, and

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	Page 190		Page 192
1	A. I'd like to review	1	refer to this as an indication that there are
2	Q. Well, I want to talk about your	2	problematic materials in Chinese ore. Obviously, it was
3	statement, then. When you're saying Chinese talc is	3	investigated for a reason, so they were interested in it
4	higher than normal	4	at some level.
5	A. Can I?	5	BY MR. FROST:
6	Q. No.	6	Q. Okay. But you agree with me you have no
7	MS. SCOTT: Let him ask the question.	7	way to tell us one way or the other that any of the
8	BY MR. FROST:	8	tests of any of the ore in this document actually relate
9	Q. Can you answer my question, please?	9	to the talcum powder that 20 years, 30 years later made
10	A. Okay. Good.	10	it into Johnson & Johnson talcum powder products?
11	Q. When you say Chinese talc contains higher	11	MS. O'DELL: Objection.
12	than normal heavy metal contents, you're talking about	12	A. The the documentation provided to me
13	all talc from China, not necessarily the Chinese talc	13	is there's many gaps.
14	that Johnson & Johnson was using? Is that what you're	14	BY MR. FROST:
15	telling me?	15	Q. Sir, I'm talking about this document.
16	MS. SCOTT: Objection.	16	Focus on this document. So my question is: This
17	A. I'm sorry.	17	document, is there anywhere in this document that says
18	BY MR. FROST:	18	the talc that Johnson & Johnson uses 20 years later for
19	Q. I'll ask you the question again, so you	19	talcum powder has constituents? I understand we're
20	don't have to read it.	20	talking
21	A. Yeah.	21	A. Has constituents?
22	Q. So in your report, when you're talking	22	Q. Has the constituents we're talking about
23	about Chinese talc, you're talking about talc from the	23	here. You know, that "Defendant had information
24	country of China, not the Chinese talc ore that Johnson	24	indicating that Chinese talc contains higher than normal
25	& Johnson was using? Is that what you're telling us?	25	heavy metal contents like lead, cobalt, chromium, nickel
	Page 191		Page 193
1	MS. SCOTT: Objection.	1	and titanium." Is there anything in here
2	A. I meant, essentially, both more Chinese,	2	A. They simply knew that this is how I
3	Chinese talc, meaning talc within the boundaries of	3	they simply know that this report existed, right?
4	China has more or has contaminants and would be of	4	Q. You have to listen to my question. You
5	potential concern.	5	can't tell me one way or the other that this report in
6	BY MR. FROST:	6	any way relates to any talc ever used by Johnson &
7	Q. That's a general statement as to all	7	Johnson for its talcum powder, right?
8	tales coming out of all tale regions of China?	8	MS. SCOTT: Objection.
9	MS. O'DELL: Object to the form.	9	A. I do not have a chain of custody, so,
10	BY MR. FROST:	10	yes.
11	A. Well, it's specific to this example, and	11	Q. Okay.
12	as an example, I think there's, there's a lot of concern	12	A. But the way the sentence is phrased, the
13	in the general environmental literature about materials	13	sentence is general.
14	in China in general so	14	Q. Yes. We've established that now.
15	Q. And by concerns over materials in	16	MS. O'DELL: Excuse me.
16	general, you're talking about now everything coming out	17	BY MR. FROST: Q. No, no. I'm saying
17	of China as a generalization?	18	MS. O'DELL: You interrupted him let
10	MS. SCOTT: Objection.	19	him finish.
18			MR. FROST: Sure.
19	A. Not everything.	1 20	
19 20	BY MR. FROST:	20 21	
19 20 21	BY MR. FROST: Q. But you're talking about, like, the lead	21 22	BY MR. FROST:
19 20 21 22	BY MR. FROST: Q. But you're talking about, like, the lead concerns out of manufactured products like toys, and	21 22	BY MR. FROST: Q. In general
19 20 21 22 23	BY MR. FROST: Q. But you're talking about, like, the lead concerns out of manufactured products like toys, and we're including this now in your statement, right?	21	BY MR. FROST: Q. In general MS. O'DELL: Stop talking. Let him talk.
19 20 21 22	BY MR. FROST: Q. But you're talking about, like, the lead concerns out of manufactured products like toys, and	21 22 23	BY MR. FROST: Q. In general

49 (Pages 190 to 193)

	Page 194		Page 196
1	have information indicating that Chinese tale contains	1	deposits are geologically related, to the best of my
2	higher than normal levels of lead, cobalt, chromium. So	2	ability. Again, there is some paucity of data, but it
3	I feel that this document supports that statement. It	3	seemed, from what I could gather, that these are
4	doesn't say all talc, but they had knowledge that	4	geologically related.
5	some	5	BY MR. FROST:
6	BY MR. FROST:	6	Q. So sitting here today, you can tell me
7	Q. Some talc?	7	that you've specifically looked at the Maanshan deposit
8	A talc had issues.	8	and the I apologize to the court reporter for these
9	Q. Okay.	9	names and Zhizhua Mine, and you're confident and you
10	THE WITNESS: My thing is I think it	10	can tell me that you have seen sources that shows those
11	stopped. What time? It says 1520.	11	two exact deposits are similar and come from the same
12	MS. SCOTT: Did you hit "follow"?	12	areas? And if that's true, what's your source?
13	THE WITNESS: Yeah, I have hit "follow"	13	A. Let me so
14	several times.	14	MS. O'DELL: Objection.
15	BY MR. FROST:	15	A. So asbestos was discovered and fractures
16	Q. All right. While they're sorting that	16	of the talc ore body of the Maanshan deposit looking in
17	out, I'll continue to ask my questions.	17	the Shanglin region. And the question is am I certain
18	A. Okay.	18	that talc
19	Q. All right. Page 11 of your report,	19	BY MR. FROST:
20	second full paragraph starts, "In the Guangxi Province."	20	Q. You just told me that you've seen
21	A. Yes.	21	something that says Maanshan is the same geological
22	Q. If you look down the citation, you say,	22	formation?
23	after it, it says, "In 'Talc Geology, Resources,	23	A. Can we look at 413792?
24	Production and Market Study, Guangxi Autonomous Region,'	24	Q. I don't have it. Is that the one we just
25	asbestos was discovered in fractures of the talc ore	25	looked at, though?
	Page 195		Page 197
1	body of the Maanshan talc deposit located in the	1	MS. SCOTT: No.
2	Shanglin region."	2	MR. FROST: A different one. I don't
3	Did I read that right, or close enough,	3	have it, so, no. I mean, you guys can do it
4	anyway, on the pronunciations?	4	during your time.
5		1 -	during your time.
	A. Yes.	5	MS. O'DELL: If he wants to see the
6	A. Yes.Q. Did Johnson & Johnson ever use talc from		• •
6 7		5	MS. O'DELL: If he wants to see the
	Q. Did Johnson & Johnson ever use talc from	5 6	MS. O'DELL: If he wants to see the document and it's available to him All right. If he has it.
7	Q. Did Johnson & Johnson ever use talc from the Maanshan deposit?	5 6 7	MS. O'DELL: If he wants to see the document and it's available to him
7 8	Q. Did Johnson & Johnson ever use talc from the Maanshan deposit? A. I'm not sure. I'm confused by that, the	5 6 7 8	MS. O'DELL: If he wants to see the document and it's available to him All right. If he has it. A. Can we? So it's Imerys 413792, Imerys.
7 8 9	Q. Did Johnson & Johnson ever use talc from the Maanshan deposit? A. I'm not sure. I'm confused by that, the Chinese words, so I'm not sure. But, again, there was so I don't know for sure, but there was a paucity of data relating to Chinese, I think.	5 6 7 8 9	MS. O'DELL: If he wants to see the document and it's available to him All right. If he has it. A. Can we? So it's Imerys 413792, Imerys. VIDEOGRAPHER: Watch your mic. Doctor,
7 8 9 10	Q. Did Johnson & Johnson ever use talc from the Maanshan deposit? A. I'm not sure. I'm confused by that, the Chinese words, so I'm not sure. But, again, there was so I don't know for sure, but there was a paucity of data relating to Chinese, I think. Q. You specifically state, if you look back	5 6 7 8 9	MS. O'DELL: If he wants to see the document and it's available to him All right. If he has it. A. Can we? So it's Imerys 413792, Imerys. VIDEOGRAPHER: Watch your mic. Doctor, watch your mic.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Did Johnson & Johnson ever use talc from the Maanshan deposit? A. I'm not sure. I'm confused by that, the Chinese words, so I'm not sure. But, again, there was so I don't know for sure, but there was a paucity of data relating to Chinese, I think. Q. You specifically state, if you look back at page 8 A. I forget. Q of your report, you state, "2002 to present: Zhizhua Mine, Guigang Province, China. Product Name: Guangxi No. 2 and Guangxi No. 2A" A. Yeah. Those are two. Q. Maanshan is not the Guangxi mine that's mentioned there, correct? A. Correct. Q. And you have no evidence that Johnson &	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: If he wants to see the document and it's available to him All right. If he has it. A. Can we? So it's Imerys 413792, Imerys. VIDEOGRAPHER: Watch your mic. Doctor, watch your mic. A. That's 413792. 413792. It is a JNJ. BY MR. FROST: Q. No. It is an Imerys. VIDEOGRAPHER: Do you want to go off the record? MR. FROST: Let's go off the record, please. VIDEOGRAPHER: We're now going off record. The time is 3:32. (Recess taken from 3:32 to 3:39.)
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Did Johnson & Johnson ever use talc from the Maanshan deposit? A. I'm not sure. I'm confused by that, the Chinese words, so I'm not sure. But, again, there was so I don't know for sure, but there was a paucity of data relating to Chinese, I think. Q. You specifically state, if you look back at page 8 A. I forget. Q of your report, you state, "2002 to present: Zhizhua Mine, Guigang Province, China. Product Name: Guangxi No. 2 and Guangxi No. 2A" A. Yeah. Those are two. Q. Maanshan is not the Guangxi mine that's mentioned there, correct? A. Correct. Q. And you have no evidence that Johnson & Johnson ever sourced talc from the Maanshan deposit?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: If he wants to see the document and it's available to him All right. If he has it. A. Can we? So it's Imerys 413792, Imerys. VIDEOGRAPHER: Watch your mic. Doctor, watch your mic. A. That's 413792. 413792. It is a JNJ. BY MR. FROST: Q. No. It is an Imerys. VIDEOGRAPHER: Do you want to go off the record? MR. FROST: Let's go off the record, please. VIDEOGRAPHER: We're now going off record. The time is 3:32. (Recess taken from 3:32 to 3:39.) VIDEOGRAPHER: We're now back on record.
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50 (Pages 194 to 197)

	Dama 100		Dama 200
	Page 198		Page 200
1	the same?	1	anything to refute that statement?
2	A. So Guangxi is an autonomous region.	2	MS. SCOTT: Objection.
3	Q. Okay.	3	A. I have nothing to refute or endorse. I
4	A. And there are different mines within that	4	do know the geology of China is very chopped up. It's
5	autonomous region.	5	extremely complex. So you can have areas that are
6	Q. So, again, do you have anything that	6	geologically connected that are distant from each other.
7	shows me that the formation at the Zhizhua Mine are the	7	So Tianchen is a basin area in north central China. I
8	same as the Maanshan mine?	8	have colleagues that work there, and essentially, there
9	A. No. I don't think so, or I'm unclear.	9	are major displacements that occur.
10	I'm confused by the names.	10	So, again, I didn't have details of
11	Q. All right. That's fine. Moving on on	11	China, but, essentially, China is very complex, and you
12	page 11, the paragraph that starts about halfway down	12	can have parts of the geology disperse. Yes, I was not
13	the page, "Beginning in July of 2004."	13	aware that they were separated by geographic distance.
14	A. Uh-huh.	14	That doesn't preclude that.
15	Q. And then the next two paragraphs sort of	15	BY MR. FROST:
16	preceding that, do you agree with me that these all	16	Q. Well, I was going to say without
17	relate to a mine visit in the Liboshikuang Mine of the	17	speculating, your can't tell me whether or not the talc
18	Shandong Province?	18	districts of Hubei and Shandong are the same as the talc
19	A. I'm confused by the names. I would need	19	district in Guangxi, for example, correct?
20	to look at the document.	20	MS. SCOTT: Objection.
21	Q. Yeah. And Hubei and Shandong. Well,	21	BY MR. FROST:
22	here. We'll start with the first paragraph. "Beginning	22	Q. Sitting here today
23	in 2004, Rio Tinto began investigating talc	23	A. Correct. But the statement as "Rio Tinto
24	operations and talc potential in the provinces of Hubei	24	began investigating talc operations and talc potential
25	and Shandong." Did I read that correctly?	25	in the provinces of Hubei and Shandong."
	Page 199		Page 201
1	A. Yeah. So, to my knowledge, that	1	Q. Yes. Just answer my questions, okay?
1 2	A. Yeah. So, to my knowledge, that paragraph is correct.	1 2	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from
	A. Yeah. So, to my knowledge, that		Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson
2	A. Yeah. So, to my knowledge, that paragraph is correct.Q. But I didn't ask if it was correct.A. Okay.	2 3 4	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without
2	 A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me 	2 3	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever
2 3 4	 A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China 	2 3 4	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without
2 3 4 5	 A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China than Guangxi? 	2 3 4 5	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever
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2 3 4 5 6 7	 A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China than Guangxi? 	2 3 4 5 6 7	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever used talc that came from Hubei and Shandong, correct? A. Correct.
2 3 4 5 6 7 8	 A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China than Guangxi? MS. SCOTT: Objection. 	2 3 4 5 6 7 8	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever used talc that came from Hubei and Shandong, correct? A. Correct. Q. And then it continues on, and it starts
2 3 4 5 6 7 8	 A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China than Guangxi? MS. SCOTT: Objection. A. I don't know. 	2 3 4 5 6 7 8	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever used talc that came from Hubei and Shandong, correct? A. Correct. Q. And then it continues on, and it starts talking about the detailed visit to the Liboshikuang
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2 3 4 5 6 7 8 9 10	A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China than Guangxi? MS. SCOTT: Objection. A. I don't know. BY MR. FROST: Q. Okay. Did you ever look up Hubei and Shandong and compare them to where Guangxi sits? A. I don't remember. If I did, I you	2 3 4 5 6 7 8 9 10	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever used talc that came from Hubei and Shandong, correct? A. Correct. Q. And then it continues on, and it starts talking about the detailed visit to the Liboshikuang Mine in the Shandong province, correct? It's two paragraphs down. It talks about the field report and
2 3 4 5 6 7 8 9 10 11	A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China than Guangxi? MS. SCOTT: Objection. A. I don't know. BY MR. FROST: Q. Okay. Did you ever look up Hubei and Shandong and compare them to where Guangxi sits? A. I don't remember. If I did, I you know, I got the nomenclature, the names were	2 3 4 5 6 7 8 9 10 11 12	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever used talc that came from Hubei and Shandong, correct? A. Correct. Q. And then it continues on, and it starts talking about the detailed visit to the Liboshikuang Mine in the Shandong province, correct? It's two paragraphs down. It talks about the field report and "the report detailed a visit? A. The second paragraph on the bottom? Q. Yes.
2 3 4 5 6 7 8 9 10 11 12 13	A. Yeah. So, to my knowledge, that paragraph is correct. Q. But I didn't ask if it was correct. A. Okay. Q. My question is: Do you agree with me that Hubei and Shandong are different areas of China than Guangxi? MS. SCOTT: Objection. A. I don't know. BY MR. FROST: Q. Okay. Did you ever look up Hubei and Shandong and compare them to where Guangxi sits? A. I don't remember. If I did, I you	2 3 4 5 6 7 8 9 10 11 12 13	Q. Yes. Just answer my questions, okay? And, again, there's no evidence that talc ever came from Hubei and Shandong that was used in Johnson & Johnson talcum powder. You, sitting here today, without speculating, can't tell me that Johnson & Johnson ever used talc that came from Hubei and Shandong, correct? A. Correct. Q. And then it continues on, and it starts talking about the detailed visit to the Liboshikuang Mine in the Shandong province, correct? It's two paragraphs down. It talks about the field report and "the report detailed a visit? A. The second paragraph on the bottom? Q. Yes. A. In Shandong? Okay.
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Page 204 Page 202 1 upon which you have no data that are thousands of 1 MS. SCOTT: Objection. 2 kilometers away from the mine actually being used by 2 BY MR. FROST: 3 3 Q. You don't know one way or the other; is Johnson & Johnson. 4 MS. SCOTT: Form. 4 that correct? 5 5 MS. SCOTT: Objection. A. Because just like in, as you pointed out 6 6 for the Appalachians, we have this very large district MS. O'DELL: Objection. 7 that extends hundreds of kilometers. Based on the 7 A. With a hundred percent degree of 8 limited data that was available to me, it's likely that, 8 certainty, sure. But, geologically, it makes sense that 9 9 essentially, talc deposits are genetically related in things would be related. 10 10 BY MR. FROST: some way. 11 11 BY MR. FROST: Okay. And that's based on what studies 12 Q. Except that didn't you just tell me 12 have you looked at in China that show you can make the 13 13 leap to say that these regions that you don't -without speculating --MS. O'DELL: Excuse me. 14 14 A. That's --15 MR. FROST: Old on. 15 Hold on -- that you don't know anything Q. 16 16 about are related? MS. O'DELL: He was not finished. 17 17 A. So, basically, it's reasonable, you know, MS. SCOTT: Objection. 18 so if you have -- you know, you have a deposit of 18 A. I base that on, essentially, just the 19 something, and you have similar deposits of that same 19 nature of tectonics on the planet. Essentially, there's 20 something, that it's reasonable that you would expect 20 no peer review literature. 21 there to be some connection or relationship. That's 21 BY MR. FROST: 22 something that we do in geology all the time, 22 Q. Turn to page 12. It's the first full 23 essentially develop hypotheses as far as spatial 23 paragraph. "I have reviewed multiple documents." It is 24 24 the paragraph that starts there. Do you see where I am? relationships of things. 25 25 A. Yes. So, basically, the fact that there's Page 203 Page 205 Q. Where is it? The third sentence. You 1 60 percent white talc and 40 percent black talc with the 1 2 2 latter having obvious tremolite association, so that's, know that "The practices and procedures defendants' talc 3 okay, one thing. And then, notably, it was associated 3 fall short of satisfying international standards of 4 with amphibolite-grade metamorphism. Therefore, 4 quality and purity." What international standards of 5 5 quality and purity are you talking about here that you Johnson & Johnson and Imerys had information regarding 6 6 didn't cite? tremolite's presence in the region. 7 7 And if you had indication of the presence A. So industrial mineral companies, 8 8 basically, we used the peer-review literature, and of something in the region, you know, you might exclude 9 9 essentially, things are developed internally to assure that or you would want to do further exploration to sort 10 of constrain, as we mentioned earlier, with mining, we 10 that you have variability or control, and so it's commonly done that you run multiple x-ray diffraction 11 want to define what's not there and what is there. 11 12 analyses on materials, for example. So a company I work 12 BY MR. FROST: 13 closely with in Virginia, or have historically, they 13 Q. But here's where I'm going stop you. All 14 of this concerns a region that's thousands of kilometers 14 analyze 200 samples a day, essentially, and they do that 15 away from the region that's actually being mined, right? 15 with powder diffraction and, also, XRF. 16 MS. SCOTT: Objection. 16 There's analytical technologies that 17 BY MR. FROST: 17 exist that you can do rapid XRF analyses with a handheld 18 18 device, and that's been around since the early 2000s. Q. So what does any of this actually have 19 anything to do, without speculating, about the talc So, basically, the peer-review literature is one general 19 2.0 coming from the Zhizhua Mine in the Guangxi Province? 20 way of doing things. 21 MS. SCOTT: Objection. 21 Q. And then -- well, hold on. We'll start there. What studies? Can you point me a single study 22 A. The geology can be potentially related. 22 23 23 that talks about the international standards of quality BY MR. FROST: 2.4 and purity that weren't met here? 24 Q. See, we're talking about can be here, but MS. SCOTT: Objection. 25 you're speculating, right? 25

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Page 208 Page 206 1 A. So methods are communicated verbally in 1 you if you want. 2 industrial mineral companies. So, basically, by 2 A. Yeah. I need to look at it, but I think 3 3 interacting with companies, I know, basically, that you that might be related to gold mining, but Gy is 4 analyze things repeatedly, repeatedly trying to 4 something that's used in general. 5 constrain the variability. Things aren't necessarily, 5 Q. Is Gy a universally adopted standard for 6 as far as what individual companies do, they look to the 6 mining practices around the world? 7 peer-review literature to use or learn what analyses are 7 A. I think it's commonly used. Again, every 8 done and how they are executed. 8 company has their own. 9 As far as the numbers of things, that's 9 Q. Why don't we look at Afewu, but, again, 10 10 something that's decided by companies, and basically, you agree with me that Gy is one. There are probably 11 hundreds, if not thousands, of competing theories and 11 using general statistical approaches, they want to know 12 what the variation is. So companies that I work with, 12 methodologies, right? 13 they commonly will analyze hundreds of, a couple hundred 13 MS. SCOTT: Objection. 14 samples a day or a week. 14 MS. O'DELL: Objection. 15 Other companies I know, they have 15 I don't think that's an accurate 16 dedicated labs that basically analyze hundreds of 16 statement. 17 thousands of samples a week, and it's expected that they 17 BY MR. FROST: But it's certainly not the only one, maintain that level because, eventually, they can get 18 18 Q. sold or bought, so they want to be able to prove the 19 19 right? 20 reserves and the historical thing. So that's -- that's 20 Others exist. Α. 21 kind of the international standard is sort of multiple 21 So you can't tell me that Gy is the 2.2 things. It's by experience. 22 universal standard for talc mining, right, and that 23 Q. Here's what I want to get at. If I want 23 that's the standard that companies have to follow? 2.4 to know what the international standards of quality and 24 That's the, quote, international standard of quality and 25 2.5 purity are, you're telling me there's not any document I purity? Page 207 Page 209 1 can go to, any regulation or anything out there. I'm 1 MS. SCOTT: Objection. 2 2 trying to get the basis for your opinion here, and the I think it's relevant. 3 basis for your opinion here is Dr. Krekeler had told me 3 BY MR. FROST: 4 it's wrong and here's why, and you can't point to any 4 Q. We'll mark Afewu. We talked about Afewu. 5 study --5 So if you're mining --6 A. So --6 O. There's not a question pending, sir. 7 MS. O'DELL: Let him finish. 7 A. Okay. Sorry. 8 THE WITNESS: Okay. 8 MS. O'DELL: This is 20? 9 BY MR. FROST: 9 MR. FROST: 18. 10 Q. -- regulation, mine document, anything 10 COURT REPORTER: 19. 11 out there to support your basis. It's just I, Mark 11 MR. FROST: 19? 12 Krekeler, am telling you this. You should believe me. 12 COURT REPORTER: Yes. 13 MS. SCOTT: Objection. 13 (Exhibit 19 was marked for A. So Gy and the reference. Gy 79 is 14 14 identification.) 15 something that's used sampling of particulate materials 15 BY MR. FROST: 16 there in practice. 16 Q. On the first page, it's page 299 on the 17 BY MR. FROST: 17 first column. It's the paragraph that starts, "An 18 Q. Let's talk about Gy. Gy is about gold 18 essential condition of any sample." 19 mining, right? 19 Okay. I found the paragraph. 20 A. Gy is about sampling of particulate 20 Okay. About halfway through, it starts 2.1 materials. 21 talking about the Gy paper. "A number of approaches 22 Related to gold mining, right? Q. 22 have been proposed to address these problems. The most 23 A. I don't recall specifically. Was it 23 notable one is the work of Gy." Do you see where I am? 24 Afewu? I believe the Afewu. 24 A. 25 Q. If you look at Afewu, I can mark that for 25 After that, it says, "Most practitioners

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Ì	Page 210		Page 212
1	have used this model for gold ores, though, without much	1	Gy paper, and he talks about running Gy analysis of the
2	fulfillment in the results." Am I reading that	2	samples to determine whether or not they're
3	correctly?	3	representative. Is that a fair sort of, really high
4	A. You're reading what they've said.	4	level synopsis of what he's talking about?
5	Q. Okay.	5	A. Yes.
6	A. But, yeah.	6	Q. And in forming your opinions, I take it
7	Q. And you agree with me that there are laws	7	you rely I mean, we've talked about Gy. You're
8	and regulations that relate to mining standards, how	8	relying on the Gy theory, right? Is it a theory? I
9	mining has to be done, things of that nature, correct?	9	don't know what the right word to call it is. Is it
10	A. There are there's a code of mining	10	mine theory?
11	regulations. To my knowledge, there's not a specific	11	A. It is an approach.
12	code as far as what's required for sampling. It's my	12	Q. Mine approach?
13	experience that, essentially, it's based on indications	13	A. Yeah. It's very dense mathematically.
14	from peer-reviewed literature, the concerns the company	14	Q. I will agree with you there. And you're
15	has had as far as maintaining quality of their product,	15	effectively relying on the Gy approach in forming your
16	so these are the standards that are set. Some companies	16	opinions about the mining sampling practices, correct?
17	will have, essentially, internal protocols and standards	17	A. It is one of them. It is one approach,
18	that are applied, and they're international companies,	18	yes.
19	so this is applied by international.	19	Q. And Afewu and Lewis is another one you
20	Q. So you don't believe there are any	20	cite, too?
21	regulations that relate to any miners that talk about	21	A. It's another example.
22	requirements of sampling?	22	Q. And Afewu and Lewis also is another
23	MS. SCOTT: Objection.	23	mathematical geostatistical computation to determine
24	A. At this point, I don't remember. I	24	whether or not sampling is adequate and representative,
25	don't	25	correct?
1	Page 211 BY MR. FROST:	1	Page 213 A. Yes. That's another approach.
2	Q. "I don't know" is a fine answer, sir.	2	Q. Have you actually run any of the
3	A. Yeah. I don't know with certainty.		
4		3	geostatistical calculations in this case to determine
	Q. Okay. And I think we established this	4	whether or not the sampling that was being done by
5	morning, you're not a regulatory expert? You're not a	4 5	-
5	•	4 5 6	whether or not the sampling that was being done by Imerys and Johnson & Johnson is adequate? MS. SCOTT: Objection.
5	morning, you're not a regulatory expert? You're not a	4 5	whether or not the sampling that was being done by Imerys and Johnson & Johnson is adequate?
5 6 7 8	morning, you're not a regulatory expert? You're not a mine regulations expert? A. Yeah. Q. Okay. So at this point, you just don't	4 5 6 7 8	whether or not the sampling that was being done by Imerys and Johnson & Johnson is adequate? MS. SCOTT: Objection. A. No, I have not. But I do note that I did not see evidence of it either.
5 6 7 8 9	morning, you're not a regulatory expert? You're not a mine regulations expert? A. Yeah. Q. Okay. So at this point, you just don't know. Have you ever heard of the organization JORC,	4 5 6 7 8 9	whether or not the sampling that was being done by Imerys and Johnson & Johnson is adequate? MS. SCOTT: Objection. A. No, I have not. But I do note that I did not see evidence of it either. MR. FROST: Move to strike. No question
5 6 7 8 9	morning, you're not a regulatory expert? You're not a mine regulations expert? A. Yeah. Q. Okay. So at this point, you just don't know. Have you ever heard of the organization JORC, J-O-R-C?	4 5 6 7 8 9	whether or not the sampling that was being done by Imerys and Johnson & Johnson is adequate? MS. SCOTT: Objection. A. No, I have not. But I do note that I did not see evidence of it either. MR. FROST: Move to strike. No question was pending.
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Page 216 Page 214 1 phases. factor is the scale of the geologic features that are 2 And you'd sort of do it as the mine 2 involved in the deposit. So, generally, you want to 3 3 develops, right, as the -- as you're following the have a core density such that you can capture those 4 deposit? You -- a really untechnical way of saying it 4 scales of features. 5 is, effectively, you're drilling ahead of where you are 5 Q. And that's ore deposit -- by "ore 6 so you know where you can keep going, right? 6 deposit," depending, right, what you have to do to capture those features? Effectively, every mine is 7 MS. SCOTT: Objection. 7 8 8 different; is that a fair synopsis? A. It -- sometimes it's more complex than 9 that. So, basically, people gain investment for 9 MS. SCOTT: Objection. 10 exploration and it's -- you know, the investors are set 10 A. The -- it depends on the local geology, 11 on doing things one particular way because of what they 11 but it still must be representative based on the 12 believe. So there's variation in that. 12 features you're trying to capture. 13 13 Q. Okay. And you agree that additional --BY MR. FROST: 14 Q. Okay. I think we're saying the same 14 you know, one of the reasons you do additional coring, 15 additional drilling, is to further refine the mine plan, 15 thing. You're just adding a lot more words, right? 16 16 the mine schedule, things like that? A. Okay. 17 17 A. Yes. So, often, coring will be done Q. But it depends on the local geology what 18 every day in certain situations. So that's the case in 18 the deposit looks like because every deposit is 19 some palygorskite deposits in Georgia, and that's also 19 different, right? 20 the case in Brown Mountain Mine and other, other 20 MS. SCOTT: Objection. 21 situations, yes. They'll drill daily and produce lots 21 A. You can have similar deposits, but, yeah, 22 of core. 22 every deposit is in a different location. 23 And, ultimately, mine operators are 23 BY MR. FROST: 24 drilling a mine site in order to determine what the ore 24 Q. Sure. And there are different shapes and 25 25 body itself actually looks like, right? sizes, right? Page 215 Page 217 1 A. As well as other areas of concern. So I 1 A. 2 2 gave the example on the Stebbins Hill for Brown Q. So because of that, you have to drill 3 Mountain. And they, you know, they have extensive 3 appropriate to the deposit that you're coring, correct? 4 amounts of core. They filled an entire high school, 4 5 5 abandoned high school, with core. Q. And that's a determination that's usually 6 O. Where you mine -- or sorry. Where you 6 made by the on-site geologist or by the company that's 7 7 mining. You know, hopefully, they're consulting with drill, when you drill, what angle you're drilling at, et 8 8 somebody who understands the geology to determine where cetera, all these are very complicated. You know, in a 9 9 to drill. Is that also a fair statement? complicated ore body, where you drill, when you drill, 10 the angles you drill at, these are all dictated by lots 10 MS. SCOTT: Objection. A. Ultimately, the company is responsible 11 of factors, including topography, access to certain 11 12 for how it drills, yes. 12 areas, things of that nature. Do you agree with that 13 BY MR. FROST: 13 statement? 14 MS. O'DELL: Objection. 14 Q. Okay. Turn back to page 12 of your 15 A. Not necessarily. You may -- people want 15 report. It's the third paragraph. You note that, "The to essentially have a good, even distribution so they 16 practice of hand sorting is not acceptable in the United 16 17 try to drill on a grid, you know, if possible. 17 States." Do you have any law or regulation that you're 18 BY MR. FROST: 18 pointing to that says that's inappropriate? 19 Q. Okay. As you said, not necessarily. It MS. SCOTT: Objection. 19 2.0 all depends, sort of, what you're seeing and what you're 20 A. No. But, you know, the companies I work 21 looking for, correct? There's no one way to drill core 21 with wouldn't do that with something of this complexity. BY MR. FROST: 22 and ore body, right? 22 23 Q. And you've never worked with talc before, 23 A. There's multiple ways, but, you know, 2.4 right? You've never worked with a company that mines 24 using -- essentially having something that is 25 representative is reasonable. And one determining 25 talc?

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	Page 218		Page 220
1	A. Correct.	1	bottom of 5147 I'll go two lines up. I'll start
2	Q. Okay. The next paragraph down, the I	2	there. There's some stuff above it, but it starts,
3	believe this is an email. Maybe I'll just mark the	3	"During unloading, a representative industrial sample
4	document. It might be easier.	4	(at least 25mt) is processed in the plant at various
5	MR. FROST: We'll mark this one. I think	5	meshes and sent to our central Denver lab to be analyzed
6	we're on 20.	6	for main specs (whiteness, mineralogy, chemical
7	COURT REPORTER: 20.	7	composition, major elements and traces). Fibers
8	(Exhibit 20 was marked for	8	investigation is carried out systematically. The lot is
9	identification.)	9	quarantined, waiting the lab results." Don't you agree
10	BY MR. FROST:	10	with me that's the most important piece of what Cutler
11	Q. Do you see where you are in your report	11	is saying there
12	on page 12?	12	MS. SCOTT: Objection.
13	A. I'm checking to see. I'll go back.	13	BY MR. FROST:
14	Q. Sorry.	14	Q for purposes of your opinion that it
15	A. Go back to 12. So 517. Okay.	15	does not guarantee the absence of fibers or asbestos and
16	Q. And this is you're quoting here from	16	fibrous tale?
17	an email	17	MS. SCOTT: Objection.
18	A Okay.	18	 So when the cargo arrives at destination,
19	Q from Mr. Cutler? Do you see where we	19	so that's after it's been hand picked, right?
20	are?	20	BY MR. FROST:
21	A. Yes.	21	Q. Sure. What I'm saying here is: You use
22	Q. Okay. So you quote a portion of this	22	the quote you have above as a basis for your
23	email from Mr. Cutler, right? And then the next	23	A. So they're not I'm stating
24	paragraph down, you go, "Cutler goes on to say, In	24	Q. Let me finish, sir.
25	principle, the inspection is enough to guarantee the	25	A. Okay. I'm sorry. Sorry.
	Page 219		Page 221
1	requested specs to insure no fibers." And then, after	1	Q. So you use the quote above here as the
2	that, you make the opinion, "That practice falls below	2	basis for your statement that the practice falls below
3	the standards of quality control in mining operations in	3	the standards of quality in mine operations in the
4	the United States, and it does not guarantee the absence	4	United States and does not guarantee the absence of
5	of fibers, such as asbestos or fibrous talc." Did I	5	fibers such as asbestos and fibrous talc, but left out
6	read that correctly?	6	of the quote you're taking from the email is the
7	A. Yes.	7	specific part of the testing that talks about the
8	Q. Okay. If you look up at the quote from	8	testing for fibers in the talc. Am I correct or
9	Mr. Cutler's email and if you turn to the email itself,	9	•
	•	-	incorrect?
10	it's the bottom of page 5147. This is not a complete	10	A. I did not include that portion in the
10 11			
	it's the bottom of page 5147. This is not a complete	10	A. I did not include that portion in the
11	it's the bottom of page 5147. This is not a complete quote from Mr. Cutler's email, correct?	10 11	A. I did not include that portion in the quote.
11 12	it's the bottom of page 5147. This is not a complete quote from Mr. Cutler's email, correct? MS. SCOTT: Objection.	10 11 12	A. I did not include that portion in the quote. Q. Okay. Let's move on.
11 12 13	it's the bottom of page 5147. This is not a complete quote from Mr. Cutler's email, correct? MS. SCOTT: Objection. A. Let me find so where is it on 5147?	10 11 12 13 14 15	 A. I did not include that portion in the quote. Q. Okay. Let's move on. A. I
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11 12 13 14 15 16 17 18 19 20 21 22	it's the bottom of page 5147. This is not a complete quote from Mr. Cutler's email, correct? MS. SCOTT: Objection. A. Let me find so where is it on 5147? BY MR. FROST: Q. It's at the bottom. MS. SCOTT: It's in B. BY MR. FROST: Q. Yeah, it's in B. A. So "In principle, this inspection is enough to guarantee the requested specs and insure no fibers." Q. Okay. But do you see above that your	10 11 12 13 14 15 16 17 18 19 20 21 22	A. I did not include that portion in the quote. Q. Okay. Let's move on. A. I Q. All right. Moving on. A Okay. MS. SCOTT: If he's not done with his answer, let him finish his answer. A. But, yeah, I'm not. So it is you know, if you're mining material and then you have a point of shipment, you would want to test that at that point of shipment in case you find something later. You would be able to identify where in the supply chain an

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Page 222 Page 224 1 asbestos, you know, from Indiana or Russia or some other 1 2 place or some other material that is mixed in. So, to 2 O. Okay. What is the basis that grinding 3 me, it really does make sense that at the stage of when 3 the sample before testing will make it much more 4 it leaves the port, you would want to have some quality 4 difficult to --5 5 control so --A. So talc is a phyllosilicate mineral. BY MR. FROST: 6 6 It's a two-to-one layer clay. Essentially, the 7 Q. Here's my question. Isn't that exactly 7 structure is held together by long hydrogen bonds and it 8 the part that you left out of the quote? Isn't it 8 is mechanically very soft. So, basically, disingenuous that you left out the fibrous tale? 9 9 phyllosilicates have essentially delicate structures and A. As I read it, as I read it --10 10 they need to be prepared in specific ways so grinding is 11 11 MS. O'DELL: Dr. Krekeler, he's not done. a rotary motion and what that does is -- the crystal 12 A. Oh, I'm sorry. Sorry. 12 structure is shown here for talc. 13 BY MR. FROST: 13 So what that does is it takes these 14 14 Q. Don't you agree with me that it's two-to-one layers. When you grind, you displace, you 15 disingenuous to leave out the specific portion of the 15 know, essentially, a rotation of the crystal structure, 16 quote that talks about the testing that's done once the 16 and that rotation of the crystal structure basically talc arrives at port in Houston when you're making, 17 destroys the crystallographic coherency through the clay 17 18 based on that quote, the opinion that it does not 18 particle. So if you are -- essentially, for x-ray 19 guarantee the absence of fibers and falls short? 19 analysis, you're supposed to crush materials. So crush 20 MS. SCOTT: Objection. Misrepresents. 20 is specifically an up-and-down motion. And, basically, 21 A. Yeah. I say it's in the report for the 21 it's easy to do with talc. You crush it in this 22 reasons I provided. 22 up-and-down motion, typically in an agate mortar and 23 BY MR. FROST: 23 pestle. 24 Q. Okay. All right. Let's move on. 24 And then so, basically, what happens is 25 MR. FROST: Actually, if you want, I 25 you also have other potential contaminants such as Page 223 Page 225 1 don't know how long we've been going. This is 1 chrysotile. Chrysotile is a one-to-one layer 2 probably a good time for a break. I'm changing 2 serpentine. It is coiled because the octahedral sheet 3 3 subjects. and the tetrahedral sheet don't match up. So there's 4 MS. SCOTT: Sure. Great. 4 other serpentines such as antigorite, lizardite, 5 VIDEOGRAPHER: We are now going off 5 crocidolites, other things like that. 6 6 record. The time is 4:12. So what needs to happen is, again, that 7 7 (A recess was taken from 4:12 to 4:38.) needs to be prepared in a crush method, not a rotary, VIDEOGRAPHER: We're now back on record, 8 8 not ground. So grinding -- ground, grinding -- those 9 and the time is 4:38. 9 words have specific meanings in the context of 10 BY MR. FROST: 10 phyllosilicates. It's been well, recognized, and I Q. I'm going to move back to page 12 --11 11 provide several references elsewhere in the report. 12 12 A. Okay. So essentially what happens is x-ray 13 13 Q. -- of your report. The last full diffraction has detection limits, and for many paragraph on page 12, sir, it's a document entitled 14 14 materials, such as quartz, that are very crystalline, 15 "Quality Control." 15 your detection limit is approximately about a tenth of a A. Okay. 16 16 weight percent, and that's generally understood. That's 17 Q. Okay. And you note, "This document 17 a long-standing detection limit. 18 includes procedures related to Guangxi Number 1 and 18 Clay minerals, in general, the 19 Number 2A, the talc ore purchased by Defendants for use 19 phyllosilicates, in general, those materials typically 20 in Johnson's Baby Powder and Shower to Shower products. 20 have a detection limit that is at least a few weight 21 Again, the procedure calls for samples to be ground 21 percent, in part because they start off as essentially 22 prior to testing a protocol that will disrupt the 22 poorly crystalline material. So if you take a talc or a physical properties of the talc ore, making detection of 23 23 chlorite and you compare that to another, you know, a 24 harmful contaminants, including asbestos, much more 24 mineral such as a pyroxene, the overall crystallinity of 25 difficult." Did I read that right? 25 the pyroxene is much, much more than the talc or the

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Page 228 Page 226 crush and smear, correct? 1 chlorite. So and then there's also many issues with --1 2 the minerals are just very sensitive, and they naturally 2 MS. O'DELL: Objection. 3 3 have disorder. They would be far less -- I think the 4 For example, chlorite theoretically can 4 proper thing to say is they would be far less 5 5 have 1,024 different arrangements of the layers of atoms susceptible to reduction and crystallinity, but, yeah, 6 6 in the structure, two-layer structure. So, basically, the chrysotile would be. 7 the crushing and grinding, you can grind -- if you have, 7 BY MR. FROST: 8 let's say you have 4 percent chrysotile and 96 percent 8 Q Okay. But, again, chrysotile is not --9 9 talc and you have that sample and you grind it, and because of the closeness to talc, XRD is not the primary 10 10 essentially, you are destroying the crystal structures way of identifying chrysotile, correct? 11 11 of both, and you only have, essentially, a 1 percent or A. Oh, no. 12 so that is still crystalline or maybe none of it is 12 Q. I'm talking about specific to talc here. 13 crystalline. 13 Were -- I'm sorry, was the question can A. 14 You can grind, actually do experiments 14 you -- the difference --15 and grind things to be amorphous. We did this when I 15 Q. Not can you, no. 16 was a Ph.D. student. He had us hammer home the point. 16 -- between talc and chrysotile? A. 17 But, basically, so the net effect is is when you grind 17 Okay. Let me ask it another way. In the 18 stuff, you deflate the detection limit of materials that 18 testing that is done of talc to determine whether or not 19 are there. 19 there is asbestos, the way -- the test for chrysotile, 20 It's already a problem -- you know, 20 you'll agree with me, is PLM, correct? 21 chrysotile is already problematic because, essentially, 21 A. I understand that powder x-ray 22 the shape of it. So it's a difficult material to work 22 diffraction is the primary screen. 23 with. When you grind those materials, you will end up 23 That's the first screen, correct? Q. 24 with, essentially, stuff that won't diffract. So, 24 Yes. A. 25 25 therefore, with powder x-ray diffraction, you cannot be Okay. Q. Page 227 Page 229 1 assured that what you're measuring that you detect. So 1 A. And then if -- then if there's something 2 2 that's the issue with grounding. that's detected, it then goes to PLM. And then if is 3 Q. Okay. So let me start here. Amphibiles 3 something is detected, it goes to TEM. So if you 4 aren't phyllosilicates, correct, amphibile minerals? 4 don't -- if you're not -- if you're having, essentially, 5 5 MS. O'DELL: Amphiboles. a false negative because you've ground away the 6 BY MR. FROST: 6 chrysotile, you would not -- you know, as things were 7 described, you wouldn't go on to the other techniques, 7 Q. Or amphiboles. 8 8 A. They're part of the biopyriboles. but you would potentially have tremolite. 9 9 0 Okay. Q. Yes. And you're actually going -- again, 10 10 you've looked at Longo's testing, right? A So but they are not a --11 It's not phyllosilicate, correct? 11 A. 12 12 Correct. So would you invalidate Longo's testing A. 13 13 And, again, the point of XRD, the because he crushes and grinds the samples before putting 14 testing, is to determine whether or not there are 14 them through his various tests, including XRD? 15 amphibole particles in the talc. Is that also correct? 15 MS. O'DELL: Objection. MS. SCOTT: Objection. 16 A. I -- there might be some differences, but 16 17 17 overall, my review of Longo's report, I think it's fine. A. Yes. 18 18 BY MR. FROST: BY MR. FROST: 19 19 Q. Okay. So what you're talking about here Q. Okay. And, again, in looking through 2.0 is we'd ruin the talc and it would be hard, but we don't 20 Longo's report, despite that he crushed and smeared, did 21 care because we know talc is in there. What we're 21 he come up with any amorphous -- you know, did he 22 identify any amorphous figures within the talc? 22 looking for are amphiboles, right? So crushing isn't 23 23 MS. SCOTT: Objection. going to be a problem with identifying the amphiboles, 24 24 MS. O'DELL: Object to form. because they aren't subject to smear and amorphousness, 25 if that's the right word, but becoming amorphous through 25 A. I don't remember specific. I remember

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	Page 230		Page 232
1	seeing lots and lots of TEM images by there's a lot	1	or done by anybody else, have you ever seen any problem
2	of TEM images. I don't remember specifically.	2	with either smear or amorphous?
3	BY MR. FROST:	3	MS. SCOTT: Object to the form.
4	Q. You also agree with me that the amphibole	4	A. Yeah. By the nature of the test, as it's
5	content that you're looking for in baby powder is	5	been described, you know, you can't, you can't see I
6	actually very small. We're talking about the micron	6	want to say you can't see something that is not, that
7	level, correct?	7	you can't detect. So amorphous material doesn't
8	MS. O'DELL: Object to the form.	8	diffract x-rays. So x-rays arise when we have coherent
9	A. I'm sorry. What?	9	crystallinity that occurs. And then I'm trying to
10	BY MR. FROST:	10	BY MR. FROST:
11	Q. We're talking about particles that are	11	Q. I understand, but let me stop you there.
12	measured by microns, not	12	You would see amorphous on TEM or SEM, wouldn't you,
13	A. For?	13	when you were looking at images of the talc after it's
14	Q inches or centimeters for the	14	been prepared for a sample?
15	A. For what context?	15	MS. O'DELL: Objection.
16	Q. The amphiboles	16	A. The only if you're, only if you're
17	A. The amphiboles?	17	looking for it. So you need to have electron
18	Q that would be located in ground talcum	18	diffraction data that you said if you're only looking
19	powder.	19	for the asbestos materials so you're looking for
20	A. I'm sorry. I'm unclear on the question.	20	crystalline materials. You would not necessarily be
21	Can I	21	looking for amorphous. So I don't think Longo was
22	Q. I'll just ask it again.	22	tasked with finding amorphous, amorphous
23	A. Well, I would prefer to read, if that's	23	phyllosilicates. I think he
24	okay.	24	BY MR. FROST:
25	Q. Well, I'd prefer to reask you the, ask	25	Q. But I'm confused. Doesn't Longo
	Page 231		Page 233
1	you a different question, sir.	1	categorize every particle that was on the TEM grids?
2	A. Okay. All right. Good.	2	MS. O'DELL: Objection. In what way?
2	MS. O'DELL: He can ask a different	1	
3	MS. O'DELL: He can ask a different	3	MR. FROST: He accounts for them on his
3 4		3 4	MR. FROST: He accounts for them on his count sheets.
	question. BY MR. FROST:		
4	question. BY MR. FROST:	4	count sheets. BY MR. FROST:
4 5	question. BY MR. FROST: Q. So, again, my question is: The	4 5	count sheets.
4 5 6	question. BY MR. FROST: Q. So, again, my question is: The amphiboles that we care about here, the ones we're	4 5 6	count sheets. BY MR. FROST: Q. If you don't know, sir, that's fine, too. A. I don't remember.
4 5 6 7	question. BY MR. FROST: Q. So, again, my question is: The amphiboles that we care about here, the ones we're finding in the testing of talcum powder, are in microns	4 5 6 7	count sheets. BY MR. FROST: Q. If you don't know, sir, that's fine, too. A. I don't remember.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	question. BY MR. FROST: Q. So, again, my question is: The amphiboles that we care about here, the ones we're finding in the testing of talcum powder, are in microns of size. They're tiny, correct? A. They can be, yes. Q. Okay. And because they're so small and small by volume, grinding and crushing really isn't a problem because you're not going to affect the crystalline structure of something that small when you grind it. Do you also agree with that? MS. SCOTT: Objection. A. Not necessarily. It depends on the specific methods of grinding. BY MR. FROST: Q. And have you seen any evidence in any of the testing that you've looked at in this case that	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	count sheets. BY MR. FROST: Q. If you don't know, sir, that's fine, too. A. I don't remember. Q. Okay. That's fine. We'll move on. Now, sir, are you aware that talcum powder, cosmetic talcum powder specifically is regulated by the FDA? MS. SCOTT: Objection. A. I know they have looked at it. I don't know if they've I'm not a regulatory expert. So I just know that they've looked at it. I don't know that there's a study on talc. BY MR. FROST: Q. I'm not talking about regulations, regulations and testings A. Oh, okay. I'm sorry. Yeah. No. Q. Okay. All right. Are you aware that

	Page 234		Page 236
1	because that's what's required of them?	1	for that statement, correct?
2	MS. O'DELL: Object to form.	2	A. Yes.
3	MS. SCOTT: Object to the form.	3	Q. So we'll start at the first cite, which
4	A. No.	4	is Furtron or Furcron, F-u-r-c-r-o-n, and others, 1947,
5	BY MR. FROST:	5	deposits of Murray talc deposits in Murray County,
6	Q. Okay. Sir, do you agree with me that	6	Georgia, Georgia State Division of Conservation
7	compliance with legal standards is an important	7	Department of Mines, Mineralogy, Mining and Geology?
8	consideration in determining if a mine is being operated	8	A. Uh-huh.
9	correctly?	9	Q. Okay. You agree with me that they're
10	MS. SCOTT: Objection.	10	looking at Georgia mine formations, correct?
11	A. Yes, in general.	11	A. Yes.
12	BY MR. FROST:	12	Q. And that would they'd have nothing
13	Q. And as we said before, you just don't	13	no opinions or no specifics of what the actual ore body
14	know one way or the other whether or not well, I	14	in Vermont looks like or Italy or China, correct?
15	guess, what regulations govern these talc mines and	15	MS. SCOTT: Objection.
16	whether or not the companies were abiding by those	16	A. Correct.
17	regulations. Is that fair?	17	BY MR. FROST:
18	MS. SCOTT: Object to the form.	18	Q. Okay. The second citation here is Berg
19	BY MR. FROST:	19	1977, and I think that was the one we identified earlier
20	That's not your area of expertise?	20	that was a mis-cite?
21	A. Yeah. I'm not a regulatory expert.	21	A. Yes. I think it relates to Montana.
22	Q. Turn to page 39, I believe, of your	22	Q. All right. Tab the next one is
23	report. One, two, third paragraph down, it says,	23	Mark where is it? Sandrone and Zucchetti?
24	"Examination of data from several mines."	24	A. So
25	A. On page 39. "Examination of data from	25	(Exhibit 21 was marked for
	Page 235		Page 237
1	Page 235 several mines," that paragraph?	1	Page 237
1 2		1 2	
	several mines," that paragraph?		identification.)
2	several mines," that paragraph? Q. Yes, that paragraph. Let me just orient	2	identification.) BY MR. FROST:
2 3	several mines," that paragraph? Q. Yes, that paragraph. Let me just orient myself. I apologize.	2 3	identification.) BY MR. FROST: Q. So it seems like this is talking about
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	several mines," that paragraph? Q. Yes, that paragraph. Let me just orient myself. I apologize. All right. You note here, "Examination of data from several mines shows that ore bodies are very complex, with mixtures of several rock types, including those likely to have the presence of asbestos and heavy metals. These rock types are intimately mixed with talc ore. The variation of the bodies of rock differs and significant features may be only one foot thick or less." Correct? A. Yes. That is what it says. Q. Are you talking about the features there of the talc ore itself or are you talking about the other minerals that might be in the geological formation? A. So I'm talking about the ore as a whole, including, you know, lithologies that are rich in talc and not as well as the minerals and all the constituents of ore. Q. So you're talking about the ore body? I just want to clarify what we're talking about there.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	identification.) BY MR. FROST: Q. So it seems like this is talking about the Italian deposit. A Yes. So, yeah. Q You go one, two, three, four. MR. FROST: Oh, I apologize I thought he had the paper in front of him. COURT REPORTER: No. MR. FROST: Oh, I'm sorry. BY MR. FROST: Q I'll reask the question. She didn't get it. So the question was: This paper appears to be dealing with the Italian mines, correct, the Italian deposit? A. Yes. Can I state a clarification? Q. Sure. A. So this is actually meant as an introduction paragraph. So several mines, meaning several mines of talc, in general. Q. Okay.

60 (Pages 234 to 237)

	Page 238		Page 240
1	Q. Okay.	1	A. No, I did not.
2	A. So	2	Q. Do you know if your counsel provided the
3	Q. So it's not a statement	3	charts that you created to Dr. Cook?
4	A. The thing that's gone, the Berg paper	4	MS. SCOTT: Objection.
5	shows really intimate associations of, you know,	5	A. I don't know if they did or not. I
6	small-scale features. So it's meant to be general.	6	presume not. He looked at the same I think he looked
7	Sorry.	7	at the same sets of documents. It doesn't surprise me
8	Q. Okay. So these aren't talking about any	8	that
9	of the mines that we're specifically talking about here:	9	BY MR. FROST:
10	The Vermont mines, the Italian mine and the Chinese	10	Q. That they look exactly the same?
11	mines, the ones at issue on page 7 and 8	11	A they're similar. I don't know if
12	A. That sentence does	12	they're exactly the same. I didn't
13	Q of your report?	13	Q Yeah. You didn't look at it in detail?
14	A not refer to those, yes.	14	A look at Cook's. I didn't look at
15	Q Turn to page 41 of your report, please.	15	Cook's documents in detail.
16	The very the sentence that goes from 41 to 42.	16	Q. Bear with me a second. I have to go to
17	"Composite sampling is a flawed methodology to	17	the third box. It's far away.
18	adequately" monitor sorry. It's a typo, but	18	(Exhibit 22 was marked for
19	"adequately monitoring for asbestos and toxic metals and	19	identification.)
20	should be reserved for products not intended for human	20	VIDEOGRAPHER: I'm going to make a
21	consumption or cosmetic use." And then you cite to the	21	general housekeeping announcement. If you've
22	Afewu paper?	22	got a laptop in front of you and you've got a
23	A. That is an editorial error. The Afewu	23	mic on, push it back a little bit and make sure
24	reference is there as its own parenthetical sentence.	24	your phones stay away from the mic wires.
25	Q. So you agree with me	25	Thanks.
	Page 239		
			Page 241
1	A. I don't it's a typo.	1	MR. FROST: Can we go off the record for
2	A. I don't it's a typo.Q. Okay. So you agree with me that Afewu	2	MR. FROST: Can we go off the record for a second?
2	A. I don't it's a typo.Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or	2 3	MR. FROST: Can we go off the record for a second? VIDEOGRAPHER: We're now going off
2 3 4	A. I don't it's a typo. Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or whether or not ores are meant for human consumption?	2 3 4	MR. FROST: Can we go off the record for a second? VIDEOGRAPHER: We're now going off record. The time is 5:02.
2 3 4 5	 A. I don't it's a typo. Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or whether or not ores are meant for human consumption? A. Correct, yeah. That's a streaming, a 	2 3 4 5	MR. FROST: Can we go off the record for a second? VIDEOGRAPHER: We're now going off record. The time is 5:02. (Off the record.)
2 3 4 5 6	 A. I don't it's a typo. Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or whether or not ores are meant for human consumption? A. Correct, yeah. That's a streaming, a streaming reference. It's cited where it's just 	2 3 4 5 6	MR. FROST: Can we go off the record for a second? VIDEOGRAPHER: We're now going off record. The time is 5:02. (Off the record.) VIDEOGRAPHER: We are now back on record,
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2 3 4 5 6 7 8	A. I don't it's a typo. Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or whether or not ores are meant for human consumption? A. Correct, yeah. That's a streaming, a streaming reference. It's cited where it's just stand alone. There's a period before it and a period after it. Sorry about that. Q. That's okay. All right. I'm going to turn to the various charts now that are in your report.	2 3 4 5 6 7 8	MR. FROST: Can we go off the record for a second? VIDEOGRAPHER: We're now going off record. The time is 5:02. (Off the record.) VIDEOGRAPHER: We are now back on record, and the time is 5:10. BY MR. FROST: Q. All right, sir. If you look at page 21 of your report, do you see the sample with the date
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2 3 4 5 6 7 8 9 10 11	A. I don't it's a typo. Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or whether or not ores are meant for human consumption? A. Correct, yeah. That's a streaming, a streaming reference. It's cited where it's just stand alone. There's a period before it and a period after it. Sorry about that. Q. That's okay. All right. I'm going to turn to the various charts now that are in your report. So as a preliminary question, did you review each of the documents that are listed in the various documents?	2 3 4 5 6 7 8 9 10 11	MR. FROST: Can we go off the record for a second? VIDEOGRAPHER: We're now going off record. The time is 5:02. (Off the record.) VIDEOGRAPHER: We are now back on record, and the time is 5:10. BY MR. FROST: Q. All right, sir. If you look at page 21 of your report, do you see the sample with the date 8/22/1985? VIDEOGRAPHER: I'm sorry, Counsel. Can
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61 (Pages 238 to 241)

	Page 242		Page 244
1	Q. Do you know where Samples 85-28 and 85-30	1	A. Presumably, yeah.
2	were mined?	2	BY MR. FROST:
3	A. I'm looking at the document.	3	Q. On page 12, if you go down to the next
4	Q. Yes. If you look for the actual	4	sample listed, it's the 4/29/1986 sample.
5	document, if you turn to Tab 1 in the book you have	5	A. I'm sorry. Page 12?
6	there.	6	Q. I'm sorry. I meant page 21. I got it
7	A. I have Tab 1.	7	backwards.
8	Q. All right. Great.	8	A. Page 21. Okay. And I'm sorry. And what
9	A. All right. Let me just read. Yes. As	9	was the line?
10	is common, there's not it doesn't say the exact	10	Q. It's the next one down, 4/29/1986.
11	location.	11	A. 4/29/1986. So J&J 182. So is that
12	Q. Would it surprise you to learn that these	12	Q. That's Tab 4.
13	samples came from a mine in San Andreas, California?	13	A. Tab 4.
14	MS. SCOTT: Objection.	14	Q. And do you see in the middle of page
15	A. I did not know that.	15	we're talking here, it's sample number WMI 85-53, WMI
16	BY MR. FROST:	16	85-55 and WMI 85-57?
17	Q. Turn to Tab 2. It's a document Bates	17	A. Yes.
18	stamped JNJ 65646.	18	Q. Okay. And those are the ones that
19	A. I'm sorry. Tab 2?	19	they're talking about in the letter about the chrysotile
20	Q. Yeah. Turn to the second page.	20	detection?
21	A. Okay. The second page.	21	A. Yes.
22	Q. Okay. And if you look at sample WMI	22	Q. Okay. Do you know where these samples
23	85-28, it notes that it's grade TC-700. Do you see	23	were mined?
24	that?	24	A. We can just check. No.
25	A. 85-28. Oh, okay. Yes.	25	Q. Turn to Tab 5, sir. And that's the
	Page 243		Page 245
1	Page 243 MS. O'DELL: What sample are you on in	1	Page 245 document with Bates number JNJ 578888. You can turn to
1 2		1 2	
	MS. O'DELL: What sample are you on in		document with Bates number JNJ 578888. You can turn to
2	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry.	2	document with Bates number JNJ 578888. You can turn to the third page.
2	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page	2 3	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the
2 3 4	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2.	2 3 4	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the
2 3 4 5	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right.	2 3 4 5	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder.
2 3 4 5 6	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST:	2 3 4 5	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying
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2 3 4 5 6 7 8 9 10	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart,	2 3 4 5 6 7 8 9 10	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST:
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2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to	2 3 4 5 6 7 8 9 10 11 12 13 14	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product certification protocol on page 3. Yeah, I know. It's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700? A. Yes. Q. And that's the one we just saw that comes
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product certification protocol on page 3. Yeah, I know. It's tiny. I apologize. Do you see where it says, "San	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700? A. Yes. Q. And that's the one we just saw that comes from the San Andreas, California, mine, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product certification protocol on page 3. Yeah, I know. It's tiny. I apologize. Do you see where it says, "San Andreas, California, Red Hill Grade," and then it has	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700? A. Yes. Q. And that's the one we just saw that comes from the San Andreas, California, mine, correct? A. Okay. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product certification protocol on page 3. Yeah, I know. It's tiny. I apologize. Do you see where it says, "San Andreas, California, Red Hill Grade," and then it has "TC-700, light" and "dark"?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700? A. Yes. Q. And that's the one we just saw that comes from the San Andreas, California, mine, correct? A. Okay. Yes. Q. If you look down at WMI 85-56 and 85-57,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product certification protocol on page 3. Yeah, I know. It's tiny. I apologize. Do you see where it says, "San Andreas, California, Red Hill Grade," and then it has "TC-700, light" and "dark"? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700? A. Yes. Q. And that's the one we just saw that comes from the San Andreas, California, mine, correct? A. Okay. Yes. Q. If you look down at WMI 85-56 and 85-57, which are the other two samples, do you see that one is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page 2. MS. O'DELL: I've got you. All right. BY MR. FROST: Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? A. Correct. Q. Okay. And those are the two samples we saw from the Tab 1 document that appear in the chart, right? A. Yes. Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product certification protocol on page 3. Yeah, I know. It's tiny. I apologize. Do you see where it says, "San Andreas, California, Red Hill Grade," and then it has "TC-700, light" and "dark"? A. Yes. Q. Okay. This clearly indicates that these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	document with Bates number JNJ 578888. You can turn to the third page. A. Where is that on the Q. It's on the A. Chart? Q. No. It's the I was just identifying for the record the document. It's Tab 5 of the binder. A. Tab 5, yes. Q. If you turn to the third page MS. SCOTT: 8890. BY MR. FROST: Q. Yeah, 8890. A. Yes. Q. Okay. Do you see here on here the WMI 85-53 is identified as the grade TC-700? A. Yes. Q. And that's the one we just saw that comes from the San Andreas, California, mine, correct? A. Okay. Yes. Q. If you look down at WMI 85-56 and 85-57, which are the other two samples, do you see that one is grade 76 and the other is also grade TC-700?

62 (Pages 242 to 245)

	Page 246		Page 248
1	MS. O'DELL: Object to the form.	1	A. No, not specifically.
2	BY MR. FROST:	2	Q. Okay. If you turn to Tab 7, that's the
3	Q. Turn back to Tab 3.	3	document, it's identified as JNJMX68_2659.
4	MS. O'DELL: Is that a question?	4	A. JNJMX68_2659. Okay. Where is it in
5	MR. FROST: Sure.	5	the
6	BY MR. FROST:	6	Q. If you look at the third paragraph.
7	Q. Do you agree with me that we know from	7	A. Okay.
8	looking at the document before that the TC-700 is	8	Q. So it's the third and the fifth
9	identified as San Andreas, California?	9	paragraph.
10	MS. O'DELL: Object to the form.	10	A. "The samples represented both the
11	A. I don't remember.	11	industrial materials produced at the Gassetts and West
12	BY MR. FROST:	12	Windsor."
13	Q. We're going to turn back there. It's Tab	13	Q. Okay. If you look down at the fifth
14	3, please, in the binder. It's the last page of that	14	paragraph, it says, "In one instance, asbestos was
15	document.	15	identified, this being associated with sample D-GI
16	A. Right. Oh, okay. Yeah.	16	produced at the Gassetts Mill."
17	Q. And do you also see the grade 76?	17	A. Okay.
18	A. 76 is listed there as well.	18	Q. And do you agree with me that the
19	Q. Okay.	19	Gassetts Mill and industrial talc are different than the
20	A. Okay. Yes.	20	cosmetic talcum powder used in Johnson & Johnson Baby
21	Q. So the samples in this, from this testing	21	Powder or Johnson's Baby Powder and Shower to Shower
22	also did not come from any of the mines utilized by	22	products?
23	Johnson & Johnson for talcum powder, correct?	23	A. The geology is related.
24	MS. O'DELL: Object to the form.	24	Q. Okay. But specifically the this is
25	A. Okay. As far as yeah.	25	not talcum powder that ever made it into a bottle of
	Page 247		Page 249
1	Page 247 BY MR. FROST:	1	Page 249 Johnson's Baby Powder or Shower to Shower; is that
1 2		1 2	
	BY MR. FROST:		Johnson's Baby Powder or Shower to Shower; is that
2	BY MR. FROST: Q. Turn to page 19 of your report.	2	Johnson's Baby Powder or Shower to Shower; is that correct?
2	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report?	2 3	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection.
2 3 4	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the	2 3 4	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct.
2 3 4 5	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample.	2 3 4 5	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report.
2 3 4 5 6	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the	2 3 4 5 6	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report.
2 3 4 5 6 7	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay.	2 3 4 5 6 7	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15?
2 3 4 5 6 7 8	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I	2 3 4 5 6 7 8	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep.
2 3 4 5 6 7 8 9	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document.	2 3 4 5 6 7 8	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay.
2 3 4 5 6 7 8 9	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay.	2 3 4 5 6 7 8 9	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971.
2 3 4 5 6 7 8 9 10	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the	2 3 4 5 6 7 8 9 10	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of
2 3 4 5 6 7 8 9 10 11	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material	2 3 4 5 6 7 8 9 10 11	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the
2 3 4 5 6 7 8 9 10 11 12 13	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray	2 3 4 5 6 7 8 9 10 11 12 13	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the
2 3 4 5 6 7 8 9 10 11 12 13 14	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box.	2 3 4 5 6 7 8 9 10 11 12 13 14	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample
2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to be present at an estimated level (good at approximately	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089. MS. O'DELL: Great. Thanks. A. It says, "only minor amounts (below
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to be present at an estimated level (good at approximately to an order of magnitude) of .006 percent."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089. MS. O'DELL: Great. Thanks.
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	Page 250		Page 252
1	A. Yeah. It says, "Following are results of	1	permissible, but, again, you know, it also indicates
2	the x-ray analyses on the 344-L Vermont talc product and	2	that they're sloppy with their materials and they
3	the six monthly Vermont talc product samples." Yes.	3	Q. I'll stop you here. Without speculating,
4	MS. O'DELL: Jack, are you going to	4	you can't tell me that the talc in 344-L contained
5	mark I think what made it to the chart was	5	asbestos, correct?
6	J&J-15.	6	MS. SCOTT: Object to the form.
7	MR. FROST: I didn't have a copy with the	7	A. I would say that based on these
8	J&J-15 sticker on it. It's the same document,	8	documents, that, objectively, the analysis might be
9	though. This is just from our production.	9	suspect or based on what I saw previously.
10	MS. O'DELL: I see. Do you mind giving	10	BY MR. FROST:
11	me just a minute to pull that up	11	Q. Yeah. But you can't tell me one way or
12	MR. FROST: Sure.	12	the other based on this, considering it's a retraction?
13	MS. O'DELL: so we can correlate it?	13	A. Well, it was measured once. We don't
14	It will take me two seconds.	14	know they didn't I don't see any data that backs
15	Thanks very much.	15	up
16	BY MR. FROST:	16	Q. Well, there's no data in this report.
17	Q. If you turn, sir, to page or, sorry,	17	A. It says, I saw where evidently
18	to Tab Number 9. Well, before I get there, this report	18	contamination. "Evidently" is a word up to
19	was done by the Colorado School of Mines, correct?	19	interpretation. Prove it. I don't see, you know,
20	A. Colorado School of Mines Research	20	essentially, some sort of chemical analysis or whateve
21	Institute it what it says, yes.	21	that would prove the exact same thing.
22	Q. Are you aware that the Colorado School of	22	Q. So with the guy who did the testing
23	Mines issued a subsequent report regarding these	23	saying my testing is wrong, you're still comfortable in
24	samples?	24	saying 100 percent that there was asbestos in that
25	A. I don't know. I believe I've seen other	25	talcum powder sample?
	Dama 251		
			Page 253
1	Page 251	,	
1	things from the Colorado School of Mines.	1	MS. SCOTT: Objection.
2	things from the Colorado School of Mines. Q. Okay. If you turn to Tab 9. It's a	2	MS. SCOTT: Objection. A. Well, I would say it's probable
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	Page 254		Page 256
1	A. "8/3/1972, J&J-28, NYU, Shower to Shower	1	MS. O'DELL: Give us just a minute.
2	5 percent chrysotile."	2	A. Here's one by Doctor I'm sorry. I'm
3	Q. Turn to Tab 8. I'm sorry. Tab 10.	3	getting Dr. Lewin okay. D. You said D-1?
4	A. Tab 10.	4	MS. O'DELL: Is it DX?
5	Q. Do you agree this is a corresponding	5	MR. FROST: I have it as D. It's
6	document to that entry?	6	possible it's DX.
7	A. J&J-28. Yes.	7	A. So let's see what the date is. We have a
8	Q. Okay. Real quick, before I get there,	8	date. We're looking for January 7th, '76. January 7th,
9	turning back to Tab 9, you were never provided with this	9	'76. I think there's only I have one. I have only
10	document, right?	10	one.
11	MS. SCOTT: Objection.	11	BY MR. FROST:
12	A. Tab 9. I think I was.	12	Q. Sir, we're trying to pull up the
13	BY MR. FROST:	13	documents, but this relates and I'll get back but
14	Q. And then why didn't you consider this	14	this relates to your testing of 8/3/72 by Dr. Lewin.
15	document in creating your chart?	15	The Shower to Shower sample 84, you note on the 8/3/72.
16	MS. SCOTT: Objection.	16	If you look back at Tab 10, that's the corresponding
17	A. I potentially missed it in the	17	document for that. It's on the one, two, three, four,
18	compilation.	18	five, sixth page.
19	BY MR. FROST:	19	MS. SCOTT: Is subsection B on the
20	Q. And you also didn't include it under	20	tabulation of Dr. Lewin's original findings
21	materials considered?	21	smudged?
22	A. I missed it.	22	MR. FROST: Yeah, it's smudged, too.
23	Q. Okay. So back to Tab 10. So we agree	23	MS. SCOTT: Okay.
24	this is the source of the entry on page 16 of your	24	MR. FROST: Yeah. Mine looks the same.
25	report, correct? The Shower to Shower sample 84.	25	MS. SCOTT: Got it. And that's the
1	A. Yeah. J&J-28?	1	original?
2	Q. Yes.	2	MR. FROST: Yes. My understanding is
3	A. Yes.	3	that's the original.
4	Q. Okay. And this was testing that was done	4	BY MR. FROST:
5	by Dr. Lewin?	5	Q. Okay. So you see we're talking about
6	A. Yes.	6	Sample 84 on Tab 10?
7	Q. Are you aware that Dr. Lewin retested	7 8	A. Right. So I'm at Tab 10. Tab 10.
8	this sample and was unable to replicate his results?	9	Q. One, two, three, four it's the fifth
9	A. No.	10	page.
10	Q. Okay. Turn to Tab 11. If you look at	11	A. One, two, three, four, five.Q. Do you see a Product 84?
11	page 4, it's the testing of Number 29. I think it's	12	A. Product 84? Yes.
12	four three down.	13	Q. And if you follow across, there's
13	A. It is one, two, three, four. And I'm	14	A. 5 percent chrysotile.
14	sorry. This is	15	Q 5 percent chrysotile. Okay. So if
15	Q. Yes. That's the chart.A. Where? I don't see a number on this.	16	you turn to the document at Tab 11.
16		17	MS. O'DELL: I'm not able to find that
17	Q. Yeah. It appears to have gotten cut off, so I don't know what the number of this document is. We	18	DX.
18 19	can sort that out at the back end.	19	MR. FROST: Okay. Well, I'll provide it
20	A. Where is it at on the chart?	20	to you after the deposition. We'll figure it
	Q. It's D-7113. As I said, it got cut off.	21	out.
21	MS. O'DELL: Yeah. Was it marked in a	22	BY MR. FROST:
22 23	deposition?	23	Q. So if you look at this, this document,
	•	24	you go to the fourth page. Sorry. One, two, three,
	MR FROST: I believe it is It's marked		
24 25	MR. FROST: I believe it is. It's marked somewhere, but I have it in my notes as D-7113.	25	fourth page.

65 (Pages 254 to 257)

1 A Okay. One, two, three, four. 2 Q. Do you see here under Sample 84 with the 3 retest that there's a no detect and there's no finding 4 of chrysotile? 5 MS. SCOTT: Objection. 1 Powder, 3 percent chrysotile. 2 Q. You're looking at page 3 A. 4 of 7. 4 Q. Samples 183 and 184 5 A. Yes.	
3 retest that there's a no detect and there's no finding 3 A. 4 of 7. 4 of chrysotile? 4 Q. Samples 183 and 184	
4 of chrysotile? 4 Q. Samples 183 and 184	ge 4 of 7?
•	
5 MS. SCOTT: Objection. 5 A. Yes.	4?
6 A. In the oh, there's a question mark for 6 Q. If you look back at T	ab 11. If you look
7 chrysotile, right? 7 at Samples 133 and 134 here. A	Again, on the retest, this
8 BY MR. FROST: 8 time there's no question mark. I	t says nondetect for
9 Q. Yeah. It certainly doesn't find that 9 chrysotile, tremolite. Do you as	gree?
there's chrysotile in the retest, correct? 10 A. 133 and 134, ND. Y	es, ND is listed.
11 MS. SCOTT: Objection. 11 Q. And if you look back	at your chart on
12 A. It doesn't say "no detect," also. 12 16 strike that.	
13 BY MR. FROST: 13 So, again, looking at t	his, you can't
Q. Again, without speculating, can you tell 14 tell me whether or not there's ac	tually asbestos that
me whether or not that that means there's chrysotile in 15 made it into the sample that's lis	ted as 9/26/72 in your
that product? 16 chart, correct, without speculating	ng?
17 A. No. But it means there's some question. 17 A. Correct. It was detect	cted once in a
Yeah, I don't know why they would use question marks. 18 sample, and it was not detected	again in what is
19 If it was no detect, I would expect it to be an ND. 19 supposedly the same sample. S	-
Q. But, again, you can't tell me one way or 20 exact is it the same exact sam	
21 the other without speculating that there's chrysotile in 21 Q. It's the same sample,	=
that product, correct? 22 retesting of the same sample.	
23 MS. O'DELL: Object to the form. 23 A. Resting.	
A. So with all these, you know, re-analyses, 24 MS. O'DELL: Object	t to the form.
25 you know, essentially, one aspect of variability is that 25 A. Is the exact	
Page 259	Page 261
1 perhaps the samples were either ground more or not 1 MS. O'DELL: Excus	e me. Object to the
perhaps the samples were either ground more or not prepared, you know, in the same way. MS. O'DELL: Excus form.	e me. Object to the
	e me. Object to the
 prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating Q. You can read the doc 	cument yourself, sir.
2 prepared, you know, in the same way. 3 BY MR. FROST: 4 Q. Let's stop you here. You're speculating 5 about all of this, correct? Based on these documents, 5 Form. 3 BY MR. FROST: 4 Q. You can read the documents, 5 All right. So I think w	cument yourself, sir.
 prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating Q. You can read the doc 	cument yourself, sir.
2 prepared, you know, in the same way. 3 BY MR. FROST: 4 Q. Let's stop you here. You're speculating 5 about all of this, correct? Based on these documents, 5 Form. 3 BY MR. FROST: 4 Q. You can read the documents, 5 All right. So I think w	cument yourself, sir. we've gone ct? And we've come up
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any form. BY MR. FROST: Q. You can read the documents, All right. So I think we through, like, six of these, corrections.	cument yourself, sir. we've gone ct? And we've come up eles that have absolutely
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found graph of form. BY MR. FROST: Q. You can read the documents, All right. So I think we through, like, six of these, correctly problems with the retest or that they've actually found with six of them either are samp	cument yourself, sir. we've gone ct? And we've come up cles that have absolutely by Powder or Shower to
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to graph of form. All You can read the documents, about all right. So I think was any through, like, six of these, correctly with six of them either are samp nothing to do with Johnson's Ball of the samples? I don't want you to	cument yourself, sir. we've gone ct? And we've come up cles that have absolutely by Powder or Shower to clicum problem. Do you
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. 2 form. BY MR. FROST: 4 Q. You can read the documents, 5 All right. So I think was any 6 through, like, six of these, correwith six of them either are sampled the samples of the sample	cument yourself, sir. we've gone ct? And we've come up eles that have absolutely by Powder or Shower to elcum problem. Do you
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. BY MR. FROST: Q. You can read the documents, all right. So I think we through, like, six of these, corresponding to through, like, six of them either are samp nothing to do with Johnson's Bale speculate. Shower or any other cosmetic target agree? Talcum powder product	cument yourself, sir. we've gone ct? And we've come up eles that have absolutely by Powder or Shower to elcum problem. Do you
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. A. The this has a question mark listed py MR. FROST: All right. So I think we through, like, six of these, corre with six of them either are samp nothing to do with Johnson's Ball agree? Talcum powder product agree? Talcum powder product MS. O'DELL: Object	cument yourself, sir. we've gone ct? And we've come up eles that have absolutely by Powder or Shower to elcum problem. Do you
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prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. MS. SCOTT: Object to the form. A. The this has a question mark listed for chrysotile. BY MR. FROST: BY MR. FROST: Q. Do you agree? A. We've gone through is	cument yourself, sir. ve've gone ct? And we've come up cles that have absolutely by Powder or Shower to cleum problem. Do you clean. six examples as
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prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. A. The this has a question mark listed for chrysotile. BY MR. FROST: A. The this has a question mark listed PY MR. FROST: BY MR. FROST: Q. Do you agree? A. We've gone through: way or the other whether there was chrysotile in the final sample that was tested, according to this document, correct?	cument yourself, sir. ve've gone ct? And we've come up des that have absolutely by Powder or Shower to decum problem. Do you decide. tion. six examples as me up with, we eculating you can't say s asbestos in that
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. A. The this has a question mark listed for chrysotile. BY MR. FROST: A. The this has a question mark listed G. You can read the documents, All right. So I think want through, like, six of these, correct with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Ball of the with six of them either are samp nothing to do with Johnson's Bal	cument yourself, sir. we've gone ct? And we've come up eles that have absolutely by Powder or Shower to elcum problem. Do you ction. six examples as me up with, we eculating you can't say s asbestos in that erket, correct?
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prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. A. The this has a question mark listed A. The this has a question mark listed BY MR. FROST: BY MR. FROST: A. We've gone through: Way or the other whether there was chrysotile in the final sample that was tested, according to that document. A. Correct. According to that document. A. Correct. According to that document. Q. Okay. Go to your chart. Still on page 16, I believe. It's 9/26/72. A. Based on those documents, BY MR. FROST: BY MR. FROST: C. And Based on those document. BY MR. FROST: C. And Based on those document. BY MR. FROST: C. MS. SCOTT: Object to the form. C. MS. O'DELL: Object to the form. C. And others we've conducted the product that made it onto the mage to the product that made it on	cument yourself, sir. we've gone ct? And we've come up cles that have absolutely by Powder or Shower to clicum problem. Do you ction. six examples as me up with, we eculating you can't say s asbestos in that urket, correct? to the form.
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. A. The this has a question mark listed for chrysotile. BY MR. FROST: A. The this has a question mark listed BY MR. FROST: BY MR. FROST: Q. And based on that, you can't tell me one way or the other whether there was chrysotile in the final sample that was tested, according to this document, correct? A. Correct. According to that document. Q. Okay. Go to your chart. Still on page 16, I believe. It's 9/26/72. Q. If you turn to Tab 12. Do you agree that A lal right. So I think was the documents. All right. So I think was through the documents. All right. So I think was through the document. All right. So I think was through the document. Through, like, six of these ocrite through, like, six of these, corre withrough with six of them either are samp nothing to do with Johnson's Ball through with six of them either are samp nothing to do with Johnson's Ball through, like, six of these, corre with six of them either are samp nothing to do with Johnson's Ball through, like, six of these, corre with source and the document agree? Talcum powder product a	cument yourself, sir. we've gone ct? And we've come up cles that have absolutely by Powder or Shower to cleum problem. Do you clion. six examples as me up with, we eculating you can't say s asbestos in that urket, correct? to the form. ments, yes.
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. A. The this has a question mark listed for chrysotile. BY MR. FROST: MS. O'DELL: Object BY MR. FROST: A. We've gone through way or the other whether there was chrysotile in the final sample that was tested, according to this document, correct? A. Correct. According to that document. Q. Okay. Go to your chart. Still on page 16, I believe. It's 9/26/72. Q. If you turn to Tab 12. Do you agree that there was any through, like, six of these och through, like, six of these ecorre and the document, and the document, in the document, and the document and	cument yourself, sir. we've gone ct? And we've come up cles that have absolutely by Powder or Shower to cleum problem. Do you clion. six examples as me up with, we cculating you can't say as asbestos in that crickt, correct? to the form. ments, yes. ake us days to go
prepared, you know, in the same way. BY MR. FROST: Q. Let's stop you here. You're speculating about all of this, correct? Based on these documents, can you tell me one way or the other that there was any problems with the retest or that they've actually found chrysotile in any of these samples? I don't want you to speculate. MS. SCOTT: Object to the form. A. The this has a question mark listed for chrysotile. BY MR. FROST: MS. O'DELL: Object BY MR. FROST: A. We've gone through way or the other whether there was chrysotile in the final sample that was tested, according to this document, correct? A. Correct. According to that document. Q. Okay. Go to your chart. Still on page 16, I believe. It's 9/26/72. Q. If you turn to Tab 12. Do you agree that there was any through, like, six of these och through, like, six of these, corre through, like, six of these och through, like, six of these, corre through, like, six of these, corre through, like, six of these och through, like, six of these, corre through, like, six of these och through, like, six of these, corre through, like, six of these och through, like, six of these, corre through, like, six of these och through, like, six of these, corre with six of them either are samp nothing to do with Johnson's Bal shower or any other cosmetic ta agree? Talcum powder product 10 agree? Talcum powder product 11 MS. O'DELL: Object 12 BY MR. FROST: 13 Q. Do you agree? 14 A. We've gone through the spour's power of through the spour's power or any other cosmetic ta agree? Talcum powder product 11 MS. O'DELL: Object 12 BY MR. FROST: 13 Q. Do you agree? 14 A. We've gone through the spour's power or any other cosmetic ta agree? Talcum powder product 15 MS. O'DELL: Object 16 Q. And others we've con 17 basically determined without spour's power or any other cosmetic ta 18 one way or the other that there is 19 product that made it onto the material power or any other cosmetic ta 19 product that made it onto the material power or any other cosmetic ta 19 product that made	cument yourself, sir. we've gone ct? And we've come up cles that have absolutely by Powder or Shower to cleum problem. Do you clion. six examples as me up with, we eculating you can't say as asbestos in that cricet; to the form. ments, yes. clicke us days to go a definitively sit here

66 (Pages 258 to 261)

	Page 262		Page 264
1	reference you have on this list showing asbestos and	1	they provided to you?
2	talcum powder is actually talcum powder that was, one,	2	MS. SCOTT: Objection.
3	either use or ended up in an bottle of Johnson's Baby	3	A. No. But I well, I remember there's a
4	Powder or Shower to Shower or other talcum powder	4	deposition by Blount who indicated, I think, on page 10
5	products or, two, that you can say without speculating	5	that work from 1991 was Johnson & Johnson talcum powder,
6	contains asbestos?	6	if I remember correctly. I've seen that somewhere.
7	MS. O'DELL: Objection.	7	BY MR. FROST:
8	A. To the best of my knowledge, I stand by	8	Q. Okay. So Blount, Longo. And, again,
9	the report.	9	Blount was provided to you by plaintiffs' counsel,
10	BY MR. FROST:	10	correct?
11	Q. But sitting here today, you can't tell me	11	A. Yes.
12	one way or the other that absolutely every well, we	12	Q. Now, you've done no additional testing
13	know not every single entry is correct?	13	yourself of talcum powder? I think you said that
14	MS. O'DELL: Objection.	14	before.
15	A. Yeah. So there there are some	15	A. Correct. Yeah. That was not requested
16	misidentifications or later corrections, later	16	of me.
17	corrections that I was unaware of, but it's also	17	Q. And have you done any testing or cusing
18	concerning that you can it's not exactly you know,	18	of the testing done by Dr. Longo?
19	so what is a sample? It's not exactly clear if the	19	MS. SCOTT: Objection. Asked and
20	sample is like a kilogram sample, so you could have	20	answered.
21	portions in that sample that have asbestos that you	21	A. No. I was not asked to retest on any of
22	cannot detect, and then you can have regions of the	22	his samples or anything like that.
23	sample that have a lot. So that, that's my opinion.	23	BY MR. FROST:
24	Q. So what you're telling me is you can't	24	Q. So you're merely relying on the results
25	actually speculate as to any of the testing results in	25	of his testing for purposes of your opinions here,
	D 062		
	Page 263		Page 265
1		1	Page 265 correct?
1 2	here because of the various sample sizes retesting, and again, not everything we found is a retest, right? Some	1 2	
	here because of the various sample sizes retesting, and		correct? A. Yes.
2	here because of the various sample sizes retesting, and again, not everything we found is a retest, right? Some	2	correct? A. Yes.
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	Page 266		Page 268
1	MS. SCOTT: Objection.	1	found asbestos in every sample he tested?
2	A. You know, I looked at a lot of TEM data.	2	A. I would not be comfortable saying that.
3	You know, just looking at the quality of the data,	3	I don't know.
4	electron diffraction is, requires a certain level of	4	Q. Okay.
5	skill, and he produced several, you know, really good	5	A. I know he found asbestos in many samples.
6	nets, so he was obviously able to get good orientations	6	Q. Okay. Turning to where I did put your
7	of crystals. So, you know, he didn't have anything that	7	report?
8	was extremely off axis or anything like that. So at	8	THE WITNESS: Can we take a little break?
9	that level, I mean, I am fine with his data.	9	MR. FROST: Sure.
10	BY MR. FROST:	10	VIDEOGRAPHER: We're now going off
11	Q. You didn't go through and actually run	11	record. The time is 5:47.
12	any calculations to determine whether or not his	12	(A recess was taken from 5:47 to 6:00.)
13	accessees were correct or whether or not any of his	13	VIDEOGRAPHER: We are back on record, and
14	underlying calculations or determinations are correct?	14	the time is 6:00.
15	MS. SCOTT: Objection. Asked and	15	BY MR. FROST:
16	answered.	16	Q. We're going to change gears a little bit
17	A. I did not index things, but the	17	and talk about fibrous talc. Of course, I'm not finding
18	diffraction patterns looked suitable and consistent as	18	it. That's all right. It doesn't matter.
19	to the EDS, suitable and consistent with the materials	19	So, in general, you're relying on the
20	that he identified.	20	IARC statement from 2012, correct, that fibrous talc is
21	BY MR. FROST:	21	carcinogenic?
22	Q. And is suitable and consistent the	22	A. I'm just trying to find it.
23	scientific requirement for testing?	23	BY MR. FROST:
24	MS. SCOTT: Objection.	24	Q. If you find it, tell me the page. Okay.
25	A. So with TEM work, essentially, one should	25	Page 23 is where it starts.
	Page 267		Page 269
1	have an image, an EDS pattern and a diffraction pattern.	1	A. Twenty-three.
2	So I find what he has done is in agreement with what I	2	Q. In general, I think a couple different
3	would do and what others have done.	3	places in your report, you note that, according to IARC,
4	BY MR. FROST:	4	it's actually I see it on page 3. Yeah, that rely on
5	Q. This is despite the fact that you didn't	5	IARC 2012 to state that fibrous talc can be a human
6	do any retesting of the work calculations. You didn't	6	carcinogen?
7	do any cusing of it. You're just taking it a face value	7	A. I'm sorry. You said page 3?
8	based on your review?	8	Q. Yes.
9	MS. SCOTT: Objection.	9	A. Page 3.
	A. I was not tasked with retesting samples.	10	MS. SCOTT: I'll just object.
10	- ·	1	· · ·
10 11	BY MR. FROST:	11	A. "Tale can occur in a fibrous habit"?
		11 12	
11 12	Q. You agree with me that there are samples		A. "Talc can occur in a fibrous habit"?Q. Yep.A. "These fibers can be inhaled into the
11 12	Q. You agree with me that there are samples where Dr. Longo detected no asbestos, correct?	12	Q. Yep.A. "These fibers can be inhaled into the
11 12 13 14	Q. You agree with me that there are samples where Dr. Longo detected no asbestos, correct?	12 13	Q. Yep.
11 12 13 14 15	Q. You agree with me that there are samples where Dr. Longo detected no asbestos, correct? A. I'm not sure. There may have been some, but I don't remember the exact details.	12 13 14	Q. Yep.A. "These fibers can be inhaled into the lower lungs based on their length and diameter,
11 12 13 14 15	 Q. You agree with me that there are samples where Dr. Longo detected no asbestos, correct? A. I'm not sure. There may have been some, but I don't remember the exact details. 	12 13 14 15	Q. Yep. A. "These fibers can be inhaled into the lower lungs based on their length and diameter, producing effects linked to significant health risks in
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11 12 13 14 15 16 17	 Q. You agree with me that there are samples where Dr. Longo detected no asbestos, correct? A. I'm not sure. There may have been some, but I don't remember the exact details. Q. So you're relying on Dr. Longo's report and testing as a basis for your opinions here, but you 	12 13 14 15 16 17	Q. Yep. A. "These fibers can be inhaled into the lower lungs based on their length and diameter, producing effects linked to significant health risks in humans. IARC 2012." BY MR. FROST: Q. Okay. Would you agree with me that
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11 12 13 14 15 16 17 18	Q. You agree with me that there are samples where Dr. Longo detected no asbestos, correct? A. I'm not sure. There may have been some, but I don't remember the exact details. Q. So you're relying on Dr. Longo's report and testing as a basis for your opinions here, but you can't even tell me whether or not what percentage or if he finds no asbestos in some of the bottles he tested? MS. SCOTT: Objection.	12 13 14 15 16 17 18 19	Q. Yep. A. "These fibers can be inhaled into the lower lungs based on their length and diameter, producing effects linked to significant health risks in humans. IARC 2012." BY MR. FROST: Q. Okay. Would you agree with me that you're not an expert in reading the literature of what causes cancer?
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68 (Pages 266 to 269)

	Page 270		Page 272
1	monograph does not represent independent lab work but,	1	BY MR. FROST:
2	instead, it's a summary of work that's already been done	2	Q. If you want me to explain it
3	by others?	3	A. I don't I don't remember.
4	MS. SCOTT: Objection.	4	Q. And that, specifically, the theory is
5	A. And that's normal. There are many	5	that you know, the explanation is that if you look at
6	monographs. I mean, we have, you know, the CRC	6	talc edge on, it can appear in a 2-D image as fibrous.
7	chemistry book.	7	Would you agree with that?
8	BY MR. FROST:	8	MS. SCOTT: Objection.
9	Q. That's what I'm saying.	9	A. Can I make a statement?
10	A. It is a cumulative document, as I	10	BY MR. FROST:
11	understand it, based on peer-review literature, and it's	11	Q. Sure.
12	also an international document, so it's global	12	A. So the miopyroboles are this mineral
13	peer-review literature, as I understand it.	13	group that actually were discovered in the ultramafic,
14	Q. Do you agree with me that if there are	14	these talc-rich zones in Vermont. So Dave Devlin, I
15	IARC does not draw conclusions on its own, so if there's	15	worked with Thompson at Harvard, and basically, what
16	not peer-reviewed literature that says one way or the	16	they showed is that you can have these structural
17	other, IARC isn't going to jump out and say this is or	17	intermediates where, essentially, you can have a region
18	this isn't, correct? IARC relies on the work of others	18	of a crystal.
19	in order to reach its conclusions?	19	Q. Okay. I am going to stop you because we
20	MS. O'DELL: Object to form.	20	are talking about something completely different. My
21	A. I think it's speculation because I'm not	21	question was
22	an expert in health and medical things.	22	A. I was explaining how one might get
23	BY MR. FROST:	23	fibrous talc.
0.4	Q. Okay. Are you aware whether or not there	24	Q. No, no. I'm talking about that's why
24	()		
25	are any peer-reviewed studies that actually link	25	I stopped you, because that's not what we're talking
	are any peer-reviewed studies that actually link Page 271		I stopped you, because that's not what we're talking
25	are any peer-reviewed studies that actually link	25	I stopped you, because that's not what we're talking Page 273
25	are any peer-reviewed studies that actually link Page 271 exposure to talc to ovarian cancer? MS. SCOTT: Objection.	25 1	I stopped you, because that's not what we're talking Page 273 about.
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25 1 2 3 4	exposure to talc to ovarian cancer? MS. SCOTT: Objection. MS. O'DELL: Object to form. A. I'm sorry. Any studies or any	25 1 2 3 4	I stopped you, because that's not what we're talking Page 273 about. So do you agree that if you're looking at a plate of talc on edge, it can appear as a fiber in a 2-D SEM or TEM image? And have you read any literature
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	Page 274		Page 276
1	five.	1	finished talcum powder, correct?
2	BY MR. FROST:	2	MS. SCOTT: Objection.
3	Q. I'll skip this. You said you haven't	3	MS. O'DELL: Objection.
4	read anything. You don't know about that, so it's not	4	A. I'm sorry. Repeat the question.
5	something that comes up in your work?	5	BY MR. FROST:
6	A. I don't remember.	6	Q. Sure. You can't tell me without
7	Q. That's fine. I'll move on for sake of	7	speculating that levels of we're looking at nickel,
8	time. All right.	8	for example, here, found in ore samples are the same
9	Now, you've also noted in your report	9	levels that would be located in finished talcum powder,
10	various opinions about findings of nickel, chromium and	10	correct?
11	cobalt, correct?	11	MS. SCOTT: Objection.
12	A. Yes.	12	A. Correct. The levels of metals may be the
13	Q. And you're not qualified to opine as to	13	same, may be less or may be more depending upon the
14	whether or not a particular level of nickel is	14	process.
15	sufficient to cause human disease, correct?	15	BY MR. FROST:
16	MS. SCOTT: Objection.	16	Q. And things like beneficiation, blending,
17	A. I am not a toxicologist.	17	things of this nature would ultimately affect what ends
18	BY MR. FROST:	18	up in the final product, right?
19	Q. You're also not qualified to opine what,	19	A. If it's executed correctly, but I think
20	if any, disease may be associated with nickel	20	it's also reasonable to say that some it is
21	contaminated or with nickel exposure, correct?	21	scientifically likely it's my opinion that some of
22	MS. SCOTT: Objection.	22	this would, from the ore samples, would make it into
23	A. I'm not a toxicologist or oncologist.	23	product if it is used for that purpose.
24	BY MR. FROST:	24	Q. But you can't tell me, of these ore
25	Q. I'm looking at your report, starting on	25	samples, what sample may or may not have made
	Page 275		Page 277
1	page 34.	1	A. I can't tell you where, what bottle that
2	page 34. A. I'm right there.	2	A. I can't tell you where, what bottle that might have ended up in, yes.
2 3	page 34. A. I'm right there. Q. Some of these tests, you'll agree with	2 3	A. I can't tell you where, what bottle that might have ended up in, yes.Q. Or if it even could have ended up in the
2 3 4	page 34. A. I'm right there. Q. Some of these tests, you'll agree with me, you know, not that they're from ore. Several of	2 3 4	A. I can't tell you where, what bottle that might have ended up in, yes. Q. Or if it even could have ended up in the bottle, correct?
2 3 4 5	page 34. A. I'm right there. Q. Some of these tests, you'll agree with me, you know, not that they're from ore. Several of them actually note that they're from ore grade 66.	2 3 4 5	A. I can't tell you where, what bottle that might have ended up in, yes. Q. Or if it even could have ended up in the bottle, correct? MS. SCOTT: Objection.
2 3 4 5 6	page 34. A. I'm right there. Q. Some of these tests, you'll agree with me, you know, not that they're from ore. Several of them actually note that they're from ore grade 66. Windsor 66, you agree, is an ore, correct?	2 3 4 5 6	A. I can't tell you where, what bottle that might have ended up in, yes. Q. Or if it even could have ended up in the bottle, correct? MS. SCOTT: Objection. BY MR. FROST:
2 3 4 5 6 7	page 34. A. I'm right there. Q. Some of these tests, you'll agree with me, you know, not that they're from ore. Several of them actually note that they're from ore grade 66. Windsor 66, you agree, is an ore, correct? MS. O'DELL: Object to the form.	2 3 4 5 6 7	A. I can't tell you where, what bottle that might have ended up in, yes. Q. Or if it even could have ended up in the bottle, correct? MS. SCOTT: Objection. BY MR. FROST: Q. At that
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	page 34. A. I'm right there. Q. Some of these tests, you'll agree with me, you know, not that they're from ore. Several of them actually note that they're from ore grade 66. Windsor 66, you agree, is an ore, correct? MS. O'DELL: Object to the form. A. I'm sorry? BY MR. FROST: Q. You'd agree with me, looking at these, that the marks that say "ore in concentrate, grade 66, Windsor 66," et cetera, these are all ore samples, correct? MS. SCOTT: Objection. A. I think so. I'd like to look at the document to be sure. BY MR. FROST: Q. I mean, you can go on them, such as the example of Imerys 045182. It says three ore samples? A. Yeah. So that's what it's listed as, yes. Q. So you'd agree with me without	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I can't tell you where, what bottle that might have ended up in, yes. Q. Or if it even could have ended up in the bottle, correct? MS. SCOTT: Objection. BY MR. FROST: Q. At that A. Specifically, no. Q. Okay. A. If you process it, you may modify it one way or the other. Q. The same thing would also be true with respect to the chromium, cobalt, and I think this is the only other ones, right, chromium, cobalt that are listed in the charts? Yes. MS. SCOTT: Objection. BY MR. FROST: Q. The same would be true with chromium and cobalt, right? A. Chromium, cobalt, nickel. Chromium cobalt, nickel I'm just checking and double checking. Chromium, cobalt, and then it's not in chart form, but I

	Page 278		Page 280
1	testing? You couldn't say one way or the other what	1	Q. It you turn to, I believe, Exhibit 2,
2	level ultimately made it into, if at all, talcum powder,	2	your supplemental report.
3	finished talcum powder, correct?	3	A. Okay.
4	MS. SCOTT: Objection.	4	Q. Okay. The second page.
5	A. Yes.	5	A. Okay.
6	BY MR. FROST:	6	Q. Under sampling and techniques, do you see
7	Q. With respect to chromium, which is page	7	it's one, two, three, four down?
8	36 of your report, sir?	8	A. Under "Sampling and Testing"?
9	A. Uh-huh.	9	Q. Under "Sampling and Testing Results,"
10	Q. You know that chromium can occur in two	10	yes. You know that it failed to provide data
11	different forms, Chromium III and Chromium VI?	11	supporting no. I'm in the wrong place.
12	A. It's a slight typo. What I mean to say	12	A. I'm sorry. Where were you?
13	there is chromium can occur in two common forms and	13	Q. Sorry. I was in the wrong place. Bear
14	minerals, Chromium III and Chromium IV. So chromium can	14	with me a second here. Okay. It's the one, two, third
15	actually have several different valent states to it	15	paragraph down. It starts with "Another issue."
16	Q. And it's Chromium VI	16	A. Yeah.
17	A including the zero valent metal, which	17	Q. So "Another issue was the vague
18	we don't really see in nature.	18	description of the preparation technique. The method
19	Q. And it's chromium 6, correct, that is the	19	fails to identify whether the material was ground,
20	known carcinogen?	20	crushed or made into a powder by another method." Do
21	A. Yeah. That is one of high concern, as I	21	you see that there?
22	understand it.	22	A. Yes.
23	Q. Are you generally aware that Chromium III	23	Q. If you look up to the testing, it says,
24	is actually an essential element in the human body?	24	"XRD methodology states." Do you see where I am there?
25	A. I'm a diabetic. Yes.	25	A. Yes.
	Page 279		Page 281
1	Q. Okay. And are you also aware that	1	Q. It's the part that's indented.
2	chromium 3 is commonly found in rocks and minerals?	2	Underneath, it says, "Monthly talc composite, February
3	A. Yes.	3	1990."
4	Q. And, again, in looking at the chart, you	4	A. Yeah.
5	don't list here whether or not it is Chromium III,	5	Q. Do you agree with me that the monthly
6	Chromium VI or some other variant of the mineral or	6	talc composite is a composite of the ground finished
7	the metal, correct?	7	tale that's being tested?
8	A. Correct. But I think it's reasonable	8	MS. SCOTT: Objection.
9	that yes. There's no specific determination of	9	A. I'm unsure. I'm unsure. The you
	valent state, which would have been a nice step if you	10	one would essentially prepare the I'm sorry. Go
10			* * *
10 11	could definitively show that there is no chromium or	11	ahead.
10 11 12	could definitively show that there is no chromium or active valent chromium that would have been a good	11 12	ahead. BY MR. FROST:
10 11 12 13	could definitively show that there is no chromium or active valent chromium that would have been a good thing. But, yes, there's no specific EELS, electron	11 12 13	ahead. BY MR. FROST: Q. Yes.
10 11 12 13 14	could definitively show that there is no chromium or active valent chromium that would have been a good thing. But, yes, there's no specific EELS, electron energy loss spectroscopy, or what comes through	11 12 13 14	ahead. BY MR. FROST: Q. Yes. A. I'm unsure.
10 11 12 13 14 15	could definitively show that there is no chromium or active valent chromium that would have been a good thing. But, yes, there's no specific EELS, electron energy loss spectroscopy, or what comes through techniques to determine that.	11 12 13 14 15	ahead. BY MR. FROST: Q. Yes. A. I'm unsure. Q. You can't tell me whether or not this was
10 11 12 13 14 15	could definitively show that there is no chromium or active valent chromium that would have been a good thing. But, yes, there's no specific EELS, electron energy loss spectroscopy, or what comes through techniques to determine that. Q. And with respect to the arsenic, the	11 12 13 14 15 16	ahead. BY MR. FROST: Q. Yes. A. I'm unsure. Q. You can't tell me whether or not this was the composite sample of the already ground and prepared
10 11 12 13 14 15 16 17	could definitively show that there is no chromium or active valent chromium that would have been a good thing. But, yes, there's no specific EELS, electron energy loss spectroscopy, or what comes through techniques to determine that. Q. And with respect to the arsenic, the cobalt and the chromium, just like the nickel, you can't	11 12 13 14 15 16 17	ahead. BY MR. FROST: Q. Yes. A. I'm unsure. Q. You can't tell me whether or not this was the composite sample of the already ground and prepared talc?
10 11 12 13 14 15 16 17	could definitively show that there is no chromium or active valent chromium that would have been a good thing. But, yes, there's no specific EELS, electron energy loss spectroscopy, or what comes through techniques to determine that. Q. And with respect to the arsenic, the cobalt and the chromium, just like the nickel, you can't tell me what level of exposure is required to cause	11 12 13 14 15 16 17 18	ahead. BY MR. FROST: Q. Yes. A. I'm unsure. Q. You can't tell me whether or not this was the composite sample of the already ground and prepared tale? A. I don't I don't remember specifically.
10 11 12 13 14 15 16 17 18	could definitively show that there is no chromium or active valent chromium that would have been a good thing. But, yes, there's no specific EELS, electron energy loss spectroscopy, or what comes through techniques to determine that. Q. And with respect to the arsenic, the cobalt and the chromium, just like the nickel, you can't tell me what level of exposure is required to cause disease of those heavy metals, correct?	11 12 13 14 15 16 17 18 19	ahead. BY MR. FROST: Q. Yes. A. I'm unsure. Q. You can't tell me whether or not this was the composite sample of the already ground and prepared tale? A. I don't I don't remember specifically. Q. And if the talc was already ground as a
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	Page 282		Page 284
1	power diffraction, you would want to reduce that	1	A. Yes.
2	particle size further.	2	Q. And you've published a hundred and
3	BY MR. FROST:	3	something; is that right?
4	Q. Did you see anywhere in reviewing this	4	A. Over 40 peer-review papers. I have over
5	testing that they state that they reduce the particle	5	a hundred presentations at meetings and a couple
6	size further?	6	patents, yes.
7	MS. O'DELL: If you need to review the	7	Q. In your peer-review papers, when you're
8	document, Doctor, we can pull it.	8	citing authorities in your peer-review papers, you tend
9	A. Yeah. Why don't we pull it up?	9	to or customarily cite peer-reviewed papers, don't you?
10	BY MR. FROST:	10	A. Generally, yes.
11	Q. Sure. I don't have it. That's fine. We	11	Q. Because you know that they have the
12	can move on. I don't want to waste my time.	12	likelihood to be more accurate and have been, obviously,
13	MS. O'DELL: To ask him questions,	13	reviewed by peers, correct?
14	specific questions about the document not having	14	MS. O'DELL: Object to form.
15	this.	15	A. Correct, yes.
16	MR. FROST: I'm just asking I'm just	16	BY MR. FERGUSON:
17	asking if he knows and what he remembers in	17	Q. Now, in your report that you did in this
18	drafting his report.	18	case, and I know it's been marked as an exhibit. I
19	All right, sir. I think that's all the	19	forget which number. In your report in this case, you
20	questions I have for now. I reserve the right	20	have, among other authorities, cited Dr. Longo and
21	to look at my notes and come back, but I'm going	21	Dr. Rigler's report, correct?
22	to yield my time to some of the other	22	A. I've cited expert witness reports, yes.
23	defendants. We can go off the record.	23	Q. And you understand that Dr. Longo and
24	VIDEOGRAPHER: We're now going off	24	Rigler's report, that's not peer reviewed, correct? You
25	record. The time is 6:19.	25	understand that?
1	Page 283 (A recess was taken from 6:19 to 6:33.)	1	Page 285 A. Yes, I do.
2	VIDEOGRAPHER: We are now back on record,	2	
3			O. So while your custom is to cite
	and the time is 6:33.		Q. So while your custom is to cite peer-reviewed articles in your scientific papers that
	and the time is 6:33. CROSS-EXAMINATION	3	peer-reviewed articles in your scientific papers that
4	and the time is 6:33. CROSS-EXAMINATION BY MR. FERGUSON:	3 4	peer-reviewed articles in your scientific papers that you're writing, you've varied from that in doing your
	CROSS-EXAMINATION BY MR. FERGUSON:	3 4 5	peer-reviewed articles in your scientific papers that you're writing, you've varied from that in doing your report here in this matter, correct?
4 5 6	CROSS-EXAMINATION BY MR. FERGUSON: Q. Good evening, Dr. Krekeler. How are you?	3 4 5 6	peer-reviewed articles in your scientific papers that you're writing, you've varied from that in doing your report here in this matter, correct? MS. O'DELL: Object to the form.
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72 (Pages 282 to 285)

	Page 286		Page 288
1	Rock-Forming Minerals" by Deer, Howie and Zussman,	1	(Exhibit 24 was marked for
2	correct?	2	identification.)
3	A. Is this the same edition?	3	BY MR. FERGUSON:
4	Q. I believe I believe it's the third	4	Q. And this is a paper by a Harold R.
5	edition.	5	Newman, correct?
6	A. Oh, I'm sorry.	6	A. That's what it says.
7	Q. And yours is?	7	Q. And it says, "The Mineral Industry of
8	A. Third. Yeah, we're good.	8	Italy," correct?
9	Q. This is a book that is often relied upon	9	A. Yes. What journal did this come from?
10	by mineralogists, correct, material scientists?	10	Is this peer review?
11	A. This is a book that is used as a textbook	11	Q. I don't know. I believe it is, but I
12	for mineralogy courses, yes.	12	don't know the answer, so I'm not going to answer it.
13	Q. So let's go back to your report, and if	13	A. You believe or it is?
14	you would, just keep the Deer, Howie and Zussman by your	14	Q. I get to ask the questions.
15	side. Go to your report at page 5. Are you with me?	15	A. All right.
16	A. Page 5.	16	Q. We have Harold Newman's paper here, okay?
17	Q. And in the first paragraph on page 5 of	17	A. Okay.
18	your report, there's a sentence in the middle that says,	18	Q. From The Mineral Institute of Italy,
19	"As a result, natural talc formation is commonly	19	right?
20	accompanied by veins of other minerals, including	20	A. Mineral Industry of Italy, one.
21	asbestiform minerals like tremolite and serpentine,"	21	Q. So look at page
22	correct?	22	A. I'm sorry?
23	A. Yes.	23	Q. Look at page 428, please.
24	Q. And you cite for that Deer, Howie &	24	A. 428?
25	Zussman 2013, correct?	25	Q. Yes. And you see on the right-hand
	Page 287		Page 289
1	A. Yep.	1	
1 2	A. Yep.O. And the citation down below cites, for	1 2	column, this is a paragraph that has "Talc" in bold at
	Q. And the citation down below cites, for		
2	Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165,	2	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct.
2	Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct?	2 3	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to
2 3 4	Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads.	2 3 4	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with
2 3 4 5	Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert	2 3 4 5	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e
2 3 4 5 6 7	Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that	2 3 4 5 6	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground
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73 (Pages 286 to 289)

	Page 290		Page 292
1	Authentic Historical Italian Cosmetic Talc Sample	1	about his report while you're pulling that up,
2	Further Evidence for the Lack of Cancer Risk," correct?	2	if you wouldn't mind?
3	A. And analysis of an, implying one,	3	MS. O'DELL: Yeah, sure. I've got it
4	authentic historical Italian. Yes, that's what the	4	right here.
5	title is.	5	BY MR. FERGUSON:
6	Q. Exactly. It does say "an," a-n?	6	Q. Could look at page 31 of your report,
7	A. A single or it's implied that's a single	7	Dr. Krekeler?
8	sample. I have not seen this paper before.	8	A. I'm at page 31.
9	Q. Can you look with me at the first line of	9	Q. Are you with me, sir? Okay. Just above
10	the abstract, where it says, "Italian talc from the	10	the heading of "Toxic Metal Contamination," is a
11	Pinerolo Mines in northwest Italy is known for its	11	paragraph that starts "In summary." And do you see a
12	extreme purity," correct?	12	sentence there that says, "Defendants admit that the
13	A. That is what it says. It doesn't say	13	beneficiation process does not remove asbestos"? Do you
14	with respect to what, so and then so it's an	14	see that sentence?
15	abstract. It should be a summary from introductory	15	A. I do see that sentence.
16	materials, so let's see if they discuss that in the	16	Q. And for that proposition, you cite the
17	introduction. "It is known for its extreme purity.	17	deposition of Patrick Downey at page 407, pages line.
18	More than 60 years of epidemiological studies have	18	Excuse me. Lines 13 through 16, correct? That's what
19	failed to demonstrate any attendant cancer risk." So	19	you cited?
20	Q. I don't need you to read it out loud. I	20	A. Correct.
21	apologize for interrupting. Obviously, time is limited.	21	Q. All right. Let's look, if we may, look
22	You've answered my question, so what we know is that	22	at Exhibit 26, and the second the first page of that
23	Mr. Newman and Dr. Ilgren disagree with your comment	23	is just the cover page to Mr. Downey's deposition.
24	that the Italian talc is not good quality, correct?	24	Could you turn to the second page, and let's look at
25	MS. O'DELL: Object to the form.	25	page 407, lines 13 to 16, which you cited.
	Page 291		Page 293
1	Page 291 A. They can disagree, correct.	1	Page 293 A. So 407?
1 2		1 2	
	A. They can disagree, correct.		A. So 407?
2	A. They can disagree, correct. BY MS. ROSE:	2	A. So 407? Q. Yes, sir.
2	A. They can disagree, correct.BY MS. ROSE:Q. At one point in your report on page 13,	2	A. So 407?Q. Yes, sir.A. 13 to 16. Can I have a moment to read
2 3 4	A. They can disagree, correct. BY MS. ROSE: Q. At one point in your report on page 13, you say that, "Usually, companies have a dedicated	2 3 4	 A. So 407? Q. Yes, sir. A. 13 to 16. Can I have a moment to read the context above it and stuff? Q. Certainly, sir.
2 3 4 5	 A. They can disagree, correct. BY MS. ROSE: Q. At one point in your report on page 13, you say that, "Usually, companies have a dedicated in-house laboratory for these analyses." A. Yes. Oil Dry as an example. There's 	2 3 4 5	 A. So 407? Q. Yes, sir. A. 13 to 16. Can I have a moment to read the context above it and stuff? Q. Certainly, sir. A. To refresh my memory?
2 3 4 5	A. They can disagree, correct. BY MS. ROSE: Q. At one point in your report on page 13, you say that, "Usually, companies have a dedicated in-house laboratory for these analyses."	2 3 4 5 6	 A. So 407? Q. Yes, sir. A. 13 to 16. Can I have a moment to read the context above it and stuff? Q. Certainly, sir.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. They can disagree, correct. BY MS. ROSE: Q. At one point in your report on page 13, you say that, "Usually, companies have a dedicated in-house laboratory for these analyses." A. Yes. Oil Dry as an example. There's other companies that have, you know, extensive labs, and also, people rely on third-party labs to check their internal labs. Q. And you're aware that Imerys has had and has a dedicated in-house laboratory as well, correct? A. I believe so, yes. Q. And, in addition, Imerys has had occasion to send samples to third-party laboratories as well, correct? A. Correct. Q. Let me mark for you Exhibit 26 to your deposition, please. (Exhibit 26 was marked for identification.) MS. O'DELL: Let me get that out here. MR. FERGUSON: Sure. No problem. Let me	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. So 407? Q. Yes, sir. A. 13 to 16. Can I have a moment to read the context above it and stuff? Q. Certainly, sir. A. To refresh my memory? Q. Certainly, sir. Ready to go? Got the context? A. Yes. Q. All right. So if we look at lines 13 through 16, that is an answer by Mr. Downey where he says, "I don't know if I'm not familiar, and I don't know if flotation was intended to remove asbestos, but to my knowledge, our products don't contain asbestos so." Did I read that correctly? A. Yes, you did read that correctly. Q. So, in fact, Mr. Downey is not, as you say, admitting that the beneficiation process does not remove asbestos. Instead, what he says is I don't know if flotation was intended to remove asbestos, correct? A. That's what it says. I took it as he

	Page 294		Page 296
1	the beneficiation process does not remove asbestos,	1	A. I have "I have just a general broad
2	correct?	2	understanding that as it's crushed, an automatic sampler
3	MS. SCOTT: Objection.	3	takes a sample at specific time intervals." That's
4	A. He doesn't know if it was intended or not	4	through line 13.
5	is how that's how I interpret it. Others can	5	Q. All right. So would you agree with me
6	interpret it in other ways.	6	that in that portion of the deposition, Ms. Pier does
7	BY MR. FERGUSON:	7	not acknowledge the fact that chemical elements are
8	Q. Would you look at the bottom of page 31,	8	inherent properties of talc ore, correct?
9	please, of your report?	9	A. Correct.
10	A. Okay. On page 31. I see it, yes.	10	Q. It doesn't say that at all, does it?
11	Q. And you see it says, at the bottom, it	11	A. Yeah. I must have made a mistake with
12	starts a sentence, "In fact, these chemical elements are	12	the numbering.
13	inherent properties of talc ore, a fact acknowledged by	13	Q. You also state in your report that Imerys
14	Julie Pier in her deposition." And then you cite Julie	14	admitted in depositions that well, let me skip back
15	Pier Deposition, page 211, lines six through 13 from the	15	because I don't have my citation. So let's let's
16	September 12, 2018, session of her deposition. Do you	16	move on to another topic. I may come back to that if I
17	see that?	17	have time, okay?
18	A. Yes, I do.	18	A. Right. Do you want me to put the Pier
19	Q. And could you go to your left and pick up	19	deposition away?
20	Miss Pier's deposition? And both sessions are there.	20	Q. Yeah, for now.
21	If you could, look at the they're in reverse order, I	21	A. I'll set it aside.
22	noticed before, so would you look at the deposition that	22	Q. Yeah. Keep it handy in case we have time
23	is the second one in that notebook? It's the second	23	to get back to that.
24	one. It's not the first one because they're in reverse	24	A. Okay.
~ -	order. That's the September 13 session, I notice, and	25	Q. Now, you have taken, as you as we
25	,,,,,	25	Q. Now, you have taken, as you as we
<u>25</u>	Page 295	25	Page 297
1		1	
	Page 295		Page 297
1	Page 295 you can go all the way past those. There you go.	1	Page 297 discussed earlier, you have taken the report of
1 2	Page 295 you can go all the way past those. There you go. A. I'll try not to break the stuff.	1 2	Page 297 discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your
1 2 3	Page 295 you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page	1 2 3	Page 297 discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct?
1 2 3 4	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211?	1 2 3 4	Page 297 discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct.
1 2 3 4 5	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir.	1 2 3 4 5	Page 297 discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are
1 2 3 4 5	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211.	1 2 3 4 5	Dage 297 discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by
1 2 3 4 5 6	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay.	1 2 3 4 5 6	Dage 297 discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed?
1 2 3 4 5 6 7 8	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is	1 2 3 4 5 6 7 8	Dage 297 discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct.
1 2 3 4 5 6 7 8 9 10	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact,	1 2 3 4 5 6 7 8	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that
1 2 3 4 5 6 7 8 9 10 11	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc	1 2 3 4 5 6 7 8 9	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually
1 2 3 4 5 6 7 8 9 10 11 12	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier."	1 2 3 4 5 6 7 8 9 10	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic
1 2 3 4 5 6 7 8 9 10 11 12 13 14	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6	1 2 3 4 5 6 7 8 9 10 11 12	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc?
1 2 3 4 5 6 7 8 9 10 11 12 13 14	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition?	1 2 3 4 5 6 7 8 9 10 11 12 13	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read	1 2 3 4 5 6 7 8 9 10 11 12 13 14	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly—
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read the context a little bit to refresh myself?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly — I would want to check — there was four suppliers that
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read the context a little bit to refresh myself? Q. Right now, I'd like you to read what	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly— I would want to check—there was four suppliers that provided talc products, and they did not find any
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read the context a little bit to refresh myself? Q. Right now, I'd like you to read what A. Okay. I can just read the text.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly— I would want to check—there was four suppliers that provided talc products, and they did not find any indications or it was nondetects for those many samples.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read the context a little bit to refresh myself? Q. Right now, I'd like you to read what A. Okay. I can just read the text. Q. Yeah, what you cited.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly I would want to check there was four suppliers that provided talc products, and they did not find any indications or it was nondetects for those many samples. But I also remember that the FDA also said that I'd
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read the context a little bit to refresh myself? Q. Right now, I'd like you to read what A. Okay. I can just read the text. Q. Yeah, what you cited. A. "Well, this has to do with sampling that's done at the operation. I'm thinking that Pat is	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly— I would want to check—there was four suppliers that provided talc products, and they did not find any indications or it was nondetects for those many samples. But I also remember that the FDA also said that—I'd have to look at it for the exact language, but, essentially, the FDA couldn't fully assure that talc is
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read the context a little bit to refresh myself? Q. Right now, I'd like you to read what A. Okay. I can just read the text. Q. Yeah, what you cited. A. "Well, this has to do with sampling that's done at the operation. I'm thinking that Pat is in If you don't know, you can tell me that."	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly— I would want to check—there was four suppliers that provided talc products, and they did not find any indications or it was nondetects for those many samples. But I also remember that the FDA also said that—I'd have to look at it for the exact language, but, essentially, the FDA couldn't fully assure that talc is free of asbestos, I think. Do you have that? MR. FERGUSON: Yeah. Let's go ahead and
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you can go all the way past those. There you go. A. I'll try not to break the stuff. Q. Can we look at page A. You said is it 211? Q. Yes, sir. Page 211, please, sir. A. I turned right to it. 211. Q. Okay. A. And you're interested in lines 6 through 13? Is that your question? Q. Right. And what you've asserted is that you cite that for the proposition, "In fact, these chemical elements are inherit properties of talc ore, a fact acknowledged by Julie Pier." Can you read for me page 211, Lines 6 through 13 of the September 12 deposition? A. Well, this has to do can I first read the context a little bit to refresh myself? Q. Right now, I'd like you to read what A. Okay. I can just read the text. Q. Yeah, what you cited. A. "Well, this has to do with sampling that's done at the operation. I'm thinking that Pat is	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	discussed earlier, you have taken the report of Drs. Longo and Rigler and relied upon it for your report, correct? A. Correct. Q. And that has to do with whether there are contaminants in talc that is sold by Imerys and by Johnson & Johnson, correct? That's what they addressed? A. Correct. Q. Now, are you an aware, Dr. Krekeler, that the United States Food & Drug Administration actually performed a survey of talc and body powders and cosmetic raw material talc? A. I believe so. I looked at an FDA document on the Internet, and if I remember correctly— I would want to check—there was four suppliers that provided talc products, and they did not find any indications or it was nondetects for those many samples. But I also remember that the FDA also said that—I'd have to look at it for the exact language, but, essentially, the FDA couldn't fully assure that talc is free of asbestos, I think. Do you have that?

75 (Pages 294 to 297)

	Page 298		Page 300
1	A. I don't know if it's exactly the same one	1	Q. Let's call it rows.
2	that I looked at.	2	A. Oh, rows. Okay. All right.
3	MR. BILLINGS-KANG: Ken, was the Pier	3	Q. Okay.
4	deposition marked at all?	4	A. So for these seven rows, yes.
5	MR. FERGUSON: No. I didn't mark it. I	5	Q. Okay.
6	can mark it.	6	A. There's no asbestos detected for those
7	MS. SCOTT: 27?	7	seven samples.
8	MR. FERGUSON: Yes.	8	Q. Okay. And if we go to the
9	A. It's a printed, so it looks like a	9	second-to-the-last page of that exhibit in fact, it's
10	different format than maybe the one I looked at. The	10	the last page that has typing on it.
11	tables look familiar.	11	A. The second-to-the-last page.
12	BY MR. FERGUSON:	12	Q. Are you there?
13	Q. So since our time is growing short, if	13	A. Okay.
14	you would, it looks familiar?	14	Q. Do you see there's a column that is or a
15	A. Okay. Yeah. I I do think it's the	15	chart that is entitled "Body Powder," correct?
16	one I looked at, I think.	16	A. Correct.
17	Q. Go to the second page of the exhibit, and	17	Q. And there's a line, a row for Johnson's
18	you see that it has a heading and a little chart saying	18	Baby Powder, correct?
19	"Cosmetic-grade raw material talc," correct?	19	A. Correct.
20	A. The second page, the heading is "How FDA	20	Q. That says no asbestos detected by PLM or
21	followed up on the latest"?	21	by TEM, correct?
22	Q. Yeah. If you go to the bottom, there's a	22	A. Correct.
23	little chart with a heading that says, "Cosmetic-grade	23	Q. And a row for Shower or Shower, Morning
24	raw material talc," correct?	24	Fresh Absorbent Body Powder that likewise says no
25	A. Yes.	25	asbestos detected by PLM and TEM, correct?
	Page 299		Page 301
1	Q. And you see under "Supplier," it says,	1	A. At the very bottom, yes.
2	"Rio Tinto Minerals/Luzenac America," correct?	2	Q. So in this Food & Drug Administration
3	A. Correct.	3	survey that was done, the results were different than
4	Q. And if you look at that and the next	4	the ones that Drs. Longo and Rigler came up with,
5	page, there are seven lots that were tested from Rio	5	correct?
6	Tinto Minerals/Luzenac America, correct?	6	MS. O'DELL: Object to the form.
7	A. One, two, three, four. Yes. Seven?	7	A. Well, it's not the same sample size.
8	Q. Yes, sir.	8	And, yeah, this is the same report. As it says, "For
9	A. From Rio Tinto.	9	these reasons, while FDA finds these results
10	Q. Okay. And there's a column for	10	informative, they do not prove that most or all tale or
11	"Percentage Asbestos by PLM." That's polarized light	11	talc-containing cosmetic products currently marketed in
12	microscopy, correct?	12	the United States are likely to be free of asbestos
13	A. Yes. There's a column for that.	13	contamination. As always, when potential" yeah.
14	Q. And there's a percentage asbestos by TEM	14	This is, yeah. This is the, yeah.
15	or transmission electron microscope, correct?	15	BY MS. ROSE:
16	A. Yes. There's a column for that.	16	Q. But we know that they tested Luzenac, raw
17	Q. Okay. And in all 14 columns, it notes no	17	material talc and Johnson & Johnson body powder,
18	asbestos detected, correct?	18	correct?
19	MS. O'DELL: Objection.	19	A. Correct. Yes.
20	A. Fourteen columns?	20	MR. FERGUSON: What are we doing on time,
21	BY MS. ROSE:	21	if you wouldn't mind letting me know?
22	Q. Well, there's seven for PLM, seven for	21	VIDEOGRAPHER: You've been on record six
	TEM?	23	hours and 51 minutes.
23		₁ 43	nours and 34 minutes.
23	A. Oh, you mean rows or 14 columns? One,	24	MD EEDCHCON, Illians of a farming
	A. Oh, you mean rows or 14 columns? One, two, three, four, five columns.	24 25	MR. FERGUSON: I've got a few minutes. MR. BILLINGS-KANG: Plenty of time.

76 (Pages 298 to 301)

	Page 302		Page 304
1	MR. FERGUSON: Plenty of time.	1	jet mills and are classified and separated from other
2	THE WITNESS: Are we done with this one?	2	minerals by froth flotation or magnetic separation,"
3	MR. FERGUSON: Yes, sir. We're done with	3	correct?
4	that one.	4	A. Yes. And there's no citation for that.
5	BY MS. ROSE:	5	Q. And the IARC working group does note that
6	Q. Let me ask you one more area, one more	6	the techniques by which top ores may be processed
7	area, and then I'll quit.	7	include hand sorting, correct?
8	MR. BILLINGS-KANG: I'm going to give him	8	A. Correct, yes. That's in the second line
9	my time.	9	on the paragraph. That's what they say. Again, it's
10	MR. FERGUSON: Okay.	10	not cited, so I'm not sure where they get the
11	MR. CARY: Time for the gentleman from	11	information from, but they say that.
12	Texas.	12	MR. FERGUSON: Can we go off for one
13	MS. O'DELL: It's like we're in the	13	second? I know we're almost done, please.
14	Senate or House.	14	VIDEOGRAPHER: We're now going off
15	MR. FERGUSON: The House. I hope not.	15	record. The time is 7:05.
16	MR. FROST: Won't do too well for that.	16	(Off the record.)
17	MS. SCOTT: I was just going to say the	17	VIDEOGRAPHER: We are now back on record.
18	same thing.	18	The time is 7:07.
19	BY MR. FERGUSON:	19	BY MR. FERGUSON:
20	Q. Could you get the IARC 93 monograph,	20	Q. Dr. Krekeler, could you turn to page 42
21	which I believe is Exhibit 5?	21	of your report?
22	A. IARC 93. IARC 93. Yep. Exhibit 5, yes.	22	A. 42 of my report?
23	Q. All right.	23	Q. Yes, sir.
24	MR. FERGUSON: And I'm sorry, Leigh and	24	A. 42.
25	Carmen, do you guys have? Okay.	25	Q. Not of the IARC.
	Page 303		Page 305
1	MS. O'DELL: What page?	1	A. Oh, I thought we were still talking about
2	MR. FERGUSON: I am going to be looking	2	that. I'm sorry.
3	at page 286.	3	Q. No. I apologize. Of your report?
4	BY MR. FERGUSON:	4	A. Okay.
5	Q. Can you find page 286?	5	Q. Okay?
6	A. 286. 285, 286. I found it.	6	A. Yep.
7	Q. At the top of page 286, the section	7	•
	and, again, this is from the IARC monograph, correct?		O. Ale you there:
8	and, again, this is from the fARC monograph, correct:	8	Q. Are you there? A. Yes.
8 9	A. Correct.	8 9	A. Yes.
	A. Correct.	9	A. Yes.Q. Okay. So if you look at the last
9	A. Correct.	9 10	A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about
9 10	A. Correct.Q. That you discussed earlier and you've	9	A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding?
9 10 11	A. Correct. Q. That you discussed earlier and you've cited in your report, correct?	9 10 11	 A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph.
9 10 11 12	A. Correct. Q. That you discussed earlier and you've cited in your report, correct? MS. O'DELL: Objection. Cites the	9 10 11 12 13	 A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph. A. Yep.
9 10 11 12 13	A. Correct. Q. That you discussed earlier and you've cited in your report, correct? MS. O'DELL: Objection. Cites the monograph, but you're saying he cites this.	9 10 11 12 13 14	 A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph. A. Yep. Q. But if you look at the fifth line of
9 10 11 12 13 14	A. Correct. Q. That you discussed earlier and you've cited in your report, correct? MS. O'DELL: Objection. Cites the monograph, but you're saying he cites this. It's a little confusing.	9 10 11 12 13 14 15	 A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph. A. Yep. Q. But if you look at the fifth line of that, you see where it starts, "Imerys admitted," and it
9 10 11 12 13 14 15	A. Correct. Q. That you discussed earlier and you've cited in your report, correct? MS. O'DELL: Objection. Cites the monograph, but you're saying he cites this. It's a little confusing. MR. FERGUSON: I apologize.	9 10 11 12 13 14 15 16	 A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph. A. Yep. Q. But if you look at the fifth line of that, you see where it starts, "Imerys admitted," and it goes on to say, "Imerys admitted, in deposition, that a
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9 10 11 12 13 14 15 16 17 18 19 20 21	A. Correct. Q. That you discussed earlier and you've cited in your report, correct? MS. O'DELL: Objection. Cites the monograph, but you're saying he cites this. It's a little confusing. MR. FERGUSON: I apologize. BY MR. FERGUSON: Q. You've cited this monograph, not necessarily this portion of it? A. Correct. Yeah. I've cited the monograph. Q. So let's look at the first paragraph	9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph. A. Yep. Q. But if you look at the fifth line of that, you see where it starts, "Imerys admitted," and it goes on to say, "Imerys admitted, in deposition, that a phyllosilicate sample could be ground to a near amorphous state, damaging the sample, even with minimal grinding." Correct? Did I read that correctly? A. Yes. That is correct. Q. And then you cite the Julie Pier deposition, page 25, 23 to 25, and page 26, 1 through
9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Correct. Q. That you discussed earlier and you've cited in your report, correct? MS. O'DELL: Objection. Cites the monograph, but you're saying he cites this. It's a little confusing. MR. FERGUSON: I apologize. BY MR. FERGUSON: Q. You've cited this monograph, not necessarily this portion of it? A. Correct. Yeah. I've cited the monograph. Q. So let's look at the first paragraph there on page 286. You see it says, "Talc ores may be	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph. A. Yep. Q. But if you look at the fifth line of that, you see where it starts, "Imerys admitted," and it goes on to say, "Imerys admitted, in deposition, that a phyllosilicate sample could be ground to a near amorphous state, damaging the sample, even with minimal grinding." Correct? Did I read that correctly? A. Yes. That is correct. Q. And then you cite the Julie Pier deposition, page 25, 23 to 25, and page 26, 1 through 23, September 23rd, 2018? Correct?
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Correct. Q. That you discussed earlier and you've cited in your report, correct? MS. O'DELL: Objection. Cites the monograph, but you're saying he cites this. It's a little confusing. MR. FERGUSON: I apologize. BY MR. FERGUSON: Q. You've cited this monograph, not necessarily this portion of it? A. Correct. Yeah. I've cited the monograph. Q. So let's look at the first paragraph there on page 286. You see it says, "Talc ores may be processed by a variety of techniques that include	9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Okay. So if you look at the last paragraph on page 42 about A. Grinding? Q. That paragraph. A. Yep. Q. But if you look at the fifth line of that, you see where it starts, "Imerys admitted," and it goes on to say, "Imerys admitted, in deposition, that a phyllosilicate sample could be ground to a near amorphous state, damaging the sample, even with minimal grinding." Correct? Did I read that correctly? A. Yes. That is correct. Q. And then you cite the Julie Pier deposition, page 25, 23 to 25, and page 26, 1 through

77 (Pages 302 to 305)

	Page 306		Page 308
1	Pier notebook to your left? And this time, we're	1	Q. Well, those pages weren't missing. The
2	looking at the first deposition in the notebook because	2	words that you quoted were not just not on them,
3	they're reversed, and that's the September 13th, 2018,	3	correct?
4	date. So would you turn to page 25 in that	4	MS. SCOTT: Objection.
5	deposition	5	A. It's unclear.
6	A. This starts at page 340.	6	BY MR. FERGUSON:
7	Q. Yes, it does.	7	Q. Do you think maybe this is another
8	A. So page	8	mistake or typo?
9	Q. Would you with agree with me there is no	9	A. I don't know.
10	page 25 and no page 26 in the Julie Pier deposition	10	MR. FERGUSON: That's all I have,
11	transcript from September 13th, 2018?	11	Dr. Krekeler. Thank you for your time, sir.
12	A. I don't know.	12	VIDEOGRAPHER: Do you want to go off?
13	Q. Well	13	MS. O'DELL: James, are you okay?
14	A. Let's look and see.	14	MR. BILLINGS-KANG: I'm fine. Thank you.
15	Q. You have the deposition transcript in	15	MS. O'DELL: How much time on the record?
16	front of you, sir.	16	VIDEOGRAPHER: Seven hours even.
17	A. Is that I don't remember if it's a one	17	MS. O'DELL: Let's go take a break.
18	or two volume. Some of these, I think, were two volume.	18	MR. FROST: Look at that.
19	Q. Well, sir	19	VIDEOGRAPHER: We are going off record.
20	A. So I think if yeah, I don't remember	20	The time is 7:13.
21	specifically, but if this is	21	(A recess was taken from 7:13 to 7:47.)
22	Q. Why don't you look at the very first	22	VIDEOGRAPHER: We are now back on record.
23	page.	23	The time is 7:47.
24	A. The first page says 340. This is the	24	EXAMINATION
25	page number.	25	
	Page 307		Page 309
1	Q. Look at the very first page there that	1	BY MS. O'DELL:
2	you're looking at there, and does that say Julie Pier's	2	Q. Dr. Krekeler, good evening. I've got a
3	deposition from September 13th of 2018?	3	few questions for you to follow up.
4	A. Actually, on this page, there is not	4	A. Okay.
5	oh, September 13th, 2018.	5	Q. First, you were asked a number of
6	Q. And just as you told us, there is no page	6	questions about Italian talc and the talc ore deposits
7	25 or page 26 for the September 13, 2018, deposition of	7	in Italy. Do you recall those questions?
8	Julie Pier, is there?	8	A. Generally, yes.
9	A. In this printed copy, there appears not	9	Q. And, in fact, you were handed a binder of
10	to be. I don't	10	a documents that I think are in front of you now that
11	Q. So	11	they were marked as Exhibit 14.
12	A. Can I check to see if it's confused by	12	A. Exhibit yes.
13	just double-check? I might have.	13	Q. And they related to certain documents
	Q. Do you want to check the September 12th	14	regarding talc formations in Italy. Do you recall those
14		15	documents?
14 15	version and see?		A. Correct.
	version and see? A. Yeah. I don't know if I've confused	16	A. Collect.
15 16	A. Yeah. I don't know if I've confused		
15 16 17	A. Yeah. I don't know if I've confused things or not. So we're looking at	17	Q. And specifically in terms of the Italian
15 16 17 18	A. Yeah. I don't know if I've confused things or not. So we're looking at Q. Page 25 and page 26.	17 18	Q. And specifically in terms of the Italian ore bodies, were there positive tests of asbestos in
15 16 17 18 19	A. Yeah. I don't know if I've confused things or not. So we're looking at Q. Page 25 and page 26. A. 25 and 26.	17 18 19	Q. And specifically in terms of the Italian ore bodies, were there positive tests of asbestos in Italian talc that you reviewed in reaching your opinions
15 16 17 18 19 20	 A. Yeah. I don't know if I've confused things or not. So we're looking at Q. Page 25 and page 26. A. 25 and 26. Q. She is not talking about phyllosilicates 	17 18 19 20	Q. And specifically in terms of the Italian ore bodies, were there positive tests of asbestos in Italian talc that you reviewed in reaching your opinions in this case?
15 16 17 18 19 20 21	 A. Yeah. I don't know if I've confused things or not. So we're looking at Q. Page 25 and page 26. A. 25 and 26. Q. She is not talking about phyllosilicates on pages 25 or 26 of the September 12th, is she? 	17 18 19 20 21	Q. And specifically in terms of the Italian ore bodies, were there positive tests of asbestos in Italian talc that you reviewed in reaching your opinions in this case? MR. FROST: Objection to form.
15 16 17 18 19 20 21 22	 A. Yeah. I don't know if I've confused things or not. So we're looking at Q. Page 25 and page 26. A. 25 and 26. Q. She is not talking about phyllosilicates on pages 25 or 26 of the September 12th, is she? A. Correct. I currently don't have an 	17 18 19 20 21 22	Q. And specifically in terms of the Italian ore bodies, were there positive tests of asbestos in Italian talc that you reviewed in reaching your opinions in this case? MR. FROST: Objection to form. A. Yes.
15 16 17 18 19 20 21 22 23	 A. Yeah. I don't know if I've confused things or not. So we're looking at Q. Page 25 and page 26. A. 25 and 26. Q. She is not talking about phyllosilicates on pages 25 or 26 of the September 12th, is she? A. Correct. I currently don't have an explanation for the apparent discrepancy. 	17 18 19 20 21 22 23	Q. And specifically in terms of the Italian ore bodies, were there positive tests of asbestos in Italian talc that you reviewed in reaching your opinions in this case? MR. FROST: Objection to form. A. Yes. BY MS. O'DELL:
15 16 17 18 19 20 21 22	 A. Yeah. I don't know if I've confused things or not. So we're looking at Q. Page 25 and page 26. A. 25 and 26. Q. She is not talking about phyllosilicates on pages 25 or 26 of the September 12th, is she? A. Correct. I currently don't have an 	17 18 19 20 21 22	Q. And specifically in terms of the Italian ore bodies, were there positive tests of asbestos in Italian talc that you reviewed in reaching your opinions in this case? MR. FROST: Objection to form. A. Yes.

	Page 310		Page 312
1	A. Yes.	1	BY MS. O'DELL:
2	Q. And are the test results depicted on page	2	Q. In fact, at the top, in the first full
3	14 well, let me just ask you this way. Where did the	3	paragraph, it says, "The TEM micrograph in Figure B1
4	test results depicted in the table on page 14 of your	4	shows a number of platy talc particles. Figure B-2
5	expert report, where did they originate from?	5	shows platy talc particles and an elongated fragment of
6	A. There are five examples from 1957 to '58	6	talc."
7	from Italy.	7	A. Of talc. Two yeah. "Two other
8	Q. And you were also handed by Mr. Ferguson	8	tremolite fibers were detected," and then it restates
9	what's been marked as Exhibit 25. I don't recall if you	9	that numerical concentration of tremolite fibers in talc
10	recall a document entitled, "Analysis of an Authentic	10	was the number that I mentioned previously.
11	Historical	11	BY MS. O'DELL:
12	A. Yes.	12	Q. And so does, in fact, Exhibit 25 support
13	Q "Italian Cosmetic Talc Sample." Do	13	your opinion that Italian talc is contaminated with
14	you recall that?	14	asbestos?
15	A. Yep.	15	MR. BILLINGS-KANG: Objection to form.
16	Q. Do you have it in front of you?	16	MR. FROST: Objection to form.
17	A. Yes.	17	BY MS. O'DELL:
18	Q. And Mr. Ferguson asked you to read the	18	Q. Now, let me ask you to turn to your
19	first sentence of the abstract which addressed "the	19	report specifically. Oh, one question. You were asked
20	extreme purity" of Italian talc. Do you recall that?	20	a few questions today about the beneficiation process,
21	A. Correct. Yes, I do.	21	and if there is asbestos fibers present in talc ore, is
22	Q. Did this report that's been marked as	22	there anything in the beneficiation process that you
23	Exhibit 5 actually report the presence of tremolite	23	would expect to remove the asbestos fibers from the
24	fibers in Italian talc?	24	tale?
25	A. Yes. There's it reports the numerical	25	A. Not efficiently.
	Page 311		Page 313
	Page 311		Page 313
1	concentration of tremolite fibers in the talc sample was	1	Q. Let me ask you to turn to page 35 of your
2	concentration of tremolite fibers in the talc sample was 3.67 3.687 times 10 to the negative 6 fibers per	2	Q. Let me ask you to turn to page 35 of your report. Actually, 36.
2	concentration of tremolite fibers in the talc sample was 3.67 3.687 times 10 to the negative 6 fibers per gram, so that is over 3 million fibers per gram	2 3	Q. Let me ask you to turn to page 35 of your report. Actually, 36.A. Okay. I'm on page 36.
2 3 4	concentration of tremolite fibers in the talc sample was 3.67 3.687 times 10 to the negative 6 fibers per gram, so that is over 3 million fibers per gram corresponding to a mass concentration of .722 parts per	2 3 4	Q. Let me ask you to turn to page 35 of your report. Actually, 36.A. Okay. I'm on page 36.Q. And, actually, you can look at, actually,
2 3 4 5	concentration of tremolite fibers in the talc sample was 3.67 3.687 times 10 to the negative 6 fibers per gram, so that is over 3 million fibers per gram corresponding to a mass concentration of .722 parts per million.	2 3 4 5	 Q. Let me ask you to turn to page 35 of your report. Actually, 36. A. Okay. I'm on page 36. Q. And, actually, you can look at, actually, either 35 or 36, but are the test results and the
2 3 4 5 6	concentration of tremolite fibers in the talc sample was 3.67 3.687 times 10 to the negative 6 fibers per gram, so that is over 3 million fibers per gram corresponding to a mass concentration of .722 parts per million. Q. And if you'll turn to page 3 of this	2 3 4 5 6	 Q. Let me ask you to turn to page 35 of your report. Actually, 36. A. Okay. I'm on page 36. Q. And, actually, you can look at, actually, either 35 or 36, but are the test results and the samples that are of the samples reported in the table on
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	concentration of tremolite fibers in the talc sample was 3.67 3.687 times 10 to the negative 6 fibers per gram, so that is over 3 million fibers per gram corresponding to a mass concentration of .722 parts per million. Q. And if you'll turn to page 3 of this exhibit MR. FROST: Leigh, what exhibit is this? MS. O'DELL: 25. MR. FROST: 25. Okay. MS. O'DELL: It's what Ken marked. MR. FROST: Oh, I thought you said five. I apologize. MS. O'DELL: Did I? Sorry. Thank you. MR. BILLINGS-KANG: You said five. MS. O'DELL: I don't think you heard the two, but 25 is what I'm referring to. MR. FROST: Thank you. BY MS. O'DELL: Q. On page 3 of the exhibit, Dr. Krekeler, did the authors of this report also report the presence of fibrous talc in this particular sample?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Let me ask you to turn to page 35 of your report. Actually, 36. A. Okay. I'm on page 36. Q. And, actually, you can look at, actually, either 35 or 36, but are the test results and the samples that are of the samples reported in the table on page 35, and do many of them include the results of annual composite samples? A. Yes. Q. And are what are annual composite samples? A. They are, essentially, talcum powder that's ready to go as a consumer product, essentially a consumer product. Q. And annual samples would be composed of processed talc? A. Yes. Q. And let me ask you to look at page 36, where you report some of the findings regarding chromium. Did Johnson & Johnson conduct testing of its talc powder that was specific enough to identify whether the type of chromium contained was either hexavalent
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	concentration of tremolite fibers in the talc sample was 3.67 3.687 times 10 to the negative 6 fibers per gram, so that is over 3 million fibers per gram corresponding to a mass concentration of .722 parts per million. Q. And if you'll turn to page 3 of this exhibit MR. FROST: Leigh, what exhibit is this? MS. O'DELL: 25. MR. FROST: 25. Okay. MS. O'DELL: It's what Ken marked. MR. FROST: Oh, I thought you said five. I apologize. MS. O'DELL: Did I? Sorry. Thank you. MR. BILLINGS-KANG: You said five. MS. O'DELL: I don't think you heard the two, but 25 is what I'm referring to. MR. FROST: Thank you. BY MS. O'DELL: Q. On page 3 of the exhibit, Dr. Krekeler, did the authors of this report also report the presence of fibrous talc in this particular sample?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Let me ask you to turn to page 35 of your report. Actually, 36. A. Okay. I'm on page 36. Q. And, actually, you can look at, actually, either 35 or 36, but are the test results and the samples that are of the samples reported in the table on page 35, and do many of them include the results of annual composite samples? A. Yes. Q. And are what are annual composite samples? A. They are, essentially, talcum powder that's ready to go as a consumer product, essentially a consumer product. Q. And annual samples would be composed of processed talc? A. Yes. Q. And let me ask you to look at page 36, where you report some of the findings regarding chromium. Did Johnson & Johnson conduct testing of its talc powder that was specific enough to identify whether the type of chromium contained was either hexavalent

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	Page 314	Pag	e 316
1	A. No. I saw no evidence of any testing to	1 geologic terrain.	
2	determine whether chromium was in the three-plus state	 Q. And in the comments that are included in 	n
3	or the six-plus state.	3 the Ross paper would cover the geologic formation	is that
4	MR. FROST: Move to strike the response	4 were used to source Johnson & Johnson's talcum p	owder in
5	as speculative.	5 Vermont?	
6	BY MS. O'DELL:	6 A. Yes.	
7	Q. Is that also true is that also true of	7 MR. FROST: Objection to form. Calls f	or
8	the testing that was conducted by Imerys?	8 speculation.	
9	MR. FROST: Objection to form.	9 BY MS. O'DELL:	
10	A. I'm sorry. Can you repeat the question?	Q. Let me ask you to turn to Exhibit 11,	
11	BY MS. O'DELL:	11 which should be right	
12	Q. Is that is that also true of the	12 A. Eleven.	
13	testing that was conducted by Imerys regarding chromium?	Q in front of you there.	
14	MR. FROST: Same objection.	14 A. Yes.	
15	A. Yes.	Q. And if you'll turn to page 2 of	
16	BY MS. O'DELL:	A. Page 921 in the article?	
17	Q. You were asked a number of questions	Q. Yes. Let me ask you, with the	
18	regarding the ore deposits in Vermont. Do you recall	constituents of the geology, geologic formation that	t is
19	those questions?	described in Ross, and we'll get to it, but, also, in	
20	A. Yes.	Van Gosen, would those constituents, as described	in
21	Q. And you one of the exhibits that was	21 those publications, be the same or similar to the mi	nes
22	marked in regard to Vermont was the Ross commentary that	in Vermont that were used to source Johnson & Jo	hnson's
23	you cited, and I believe it's in front of you. What's	23 talcum powder?	
24	the exhibit number, please?	MR. FROST: Objection to form.	
25	A. Twelve, I think.	25 A. Yes.	
1	Page 315 Q. Okay.	1 BY MS. O'DELL:	e 317
2	A. That's correct.	 Q. Let me ask you to turn specifically 	
~	A. That's correct.	2 Q. Let the ask you to turn specificans	to to
3	Q. And Exhibit 12 was a reference that you	3 Van Gosen, which we've marked as Exhibit 3	
4			
	Q. And Exhibit 12 was a reference that you	 Van Gosen, which we've marked as Exhibit specifically ask you to turn to page 933. A. Okay. Yes. 	l 1 and
4	Q. And Exhibit 12 was a reference that you cited in your report?	 Van Gosen, which we've marked as Exhibit specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description 	l 1 and
4 5	Q. And Exhibit 12 was a reference that you cited in your report?A. Correct.	 Van Gosen, which we've marked as Exhibit specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? 	l 1 and
4 5 6	 Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. 	 Van Gosen, which we've marked as Exhibit 1 specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. 	11 and
4 5 6 7	 Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? 	 Van Gosen, which we've marked as Exhibit 1 specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. Q. Does this description by Van Gose 	11 and n of en apply
4 5 6 7 8	 Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. 	 Van Gosen, which we've marked as Exhibit 1 specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont tale? A. Yes, it does. Q. Does this description by Van Gose to the, or is it relevant to the geology of the temporary 	11 and n of en apply
4 5 6 7 8 9	 Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. Q. Why? 	 Van Gosen, which we've marked as Exhibit 1 specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. Q. Does this description by Van Gose to the, or is it relevant to the geology of the tomines that were used to source J&J talc? 	11 and n of en apply
4 5 6 7 8 9	 Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. Q. Why? A. So, essentially, end of second column, 	Van Gosen, which we've marked as Exhibit specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. Q. Does this description by Van Gose to the, or is it relevant to the geology of the tomines that were used to source J&J talc? A. Yes, it is.	11 and n of en apply alc
4 5 6 7 8 9 10	Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. Q. Why? A. So, essentially, end of second column, "Ultramafic talc deposits of Vermont offer a third example of the complexities of rock formations containing asbestos minerals. The core of the	 Van Gosen, which we've marked as Exhibit specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. Q. Does this description by Van Gose to the, or is it relevant to the geology of the to mines that were used to source J&J talc? A. Yes, it is. MR. FROST: Objection. Calls for 	11 and n of en apply alc
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4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. Q. Why? A. So, essentially, end of second column, "Ultramafic talc deposits of Vermont offer a third example of the complexities of rock formations containing asbestos minerals. The core of the ultramafic bodies is off a serpentine rock derived from a hydrothermal alteration of a pre-existing pyroxene and olivine-rich ultramafic rock. The serpentine core often grades outward into talc-serpentine-carbonate rock, then	Van Gosen, which we've marked as Exhibit a specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. Q. Does this description by Van Gose to the, or is it relevant to the geology of the to mines that were used to source J&J talc? A. Yes, it is. MR. FROST: Objection. Calls for speculation. BY MS. O'DELL: Q. And if you'll turn to page 934, what the description of the Vermont talc geology to the total content of the vermont talc geology to the total content of the vermont talc geology to the vermont talc geology the vermont talc geology to the vermont talc geology talc geology the vermont talc geology t	of and apply alc
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. Q. Why? A. So, essentially, end of second column, "Ultramafic talc deposits of Vermont offer a third example of the complexities of rock formations containing asbestos minerals. The core of the ultramafic bodies is off a serpentine rock derived from a hydrothermal alteration of a pre-existing pyroxene and olivine-rich ultramafic rock. The serpentine core often grades outward into talc-serpentine-carbonate rock, then steatite (massive talc ore containing often small amounts of serpentine), then 'blackwall' rock (contains amphiboles, chlorite, quartz, albite, et cetera), and finally the country rock. Equivalent ultramafic bodies in Quebec, Canada, form some of the world's largest chrysotile deposits."	Van Gosen, which we've marked as Exhibit a specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. Q. Does this description by Van Gose to the, or is it relevant to the geology of the to mines that were used to source J&J talc? A. Yes, it is. MR. FROST: Objection. Calls for speculation. BY MS. O'DELL: Q. And if you'll turn to page 934, what the description of the Vermont talc geology to doesn includes in his article? A. So, sorry. On the previous page, to alteration of zones are typically compromised sequence, provides details Q. Doctor, read more clearly for the reporter, please.	at is hat Van
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And Exhibit 12 was a reference that you cited in your report? A. Correct. Q. And is the Ross commentary supportive of your opinions? A. Yes. Q. Why? A. So, essentially, end of second column, "Ultramafic talc deposits of Vermont offer a third example of the complexities of rock formations containing asbestos minerals. The core of the ultramafic bodies is off a serpentine rock derived from a hydrothermal alteration of a pre-existing pyroxene and olivine-rich ultramafic rock. The serpentine core often grades outward into talc-serpentine-carbonate rock, then steatite (massive talc ore containing often small amounts of serpentine), then 'blackwall' rock (contains amphiboles, chlorite, quartz, albite, et cetera), and finally the country rock. Equivalent ultramafic bodies in Quebec, Canada, form some of the world's largest	Van Gosen, which we've marked as Exhibit a specifically ask you to turn to page 933. A. Okay. Yes. Q. Does page 933 begin a description Vermont talc? A. Yes, it does. Q. Does this description by Van Gose to the, or is it relevant to the geology of the to mines that were used to source J&J talc? A. Yes, it is. MR. FROST: Objection. Calls for speculation. BY MS. O'DELL: Q. And if you'll turn to page 934, what the description of the Vermont talc geology to Gosen includes in his article? A. So, sorry. On the previous page, to alteration of zones are typically compromised sequence, provides details Q. Doctor, read more clearly for the	at is hat Van he d by

80 (Pages 314 to 317)

	Page 318		Page 320
1	mono-mineralogical zone," all these other rich	1	A. I had it somewhere. Yeah, 18. Yes.
2	zones, Items 1 through 7. And then "Black-wall talc	2	Q. And if you'll turn in Exhibit 18 to page
3	deposits are associated spatially with serpentinite	3	11, is this a document that you relied on in reaching
4	masses that, in some areas, host well-developed	4	your opinions?
5	chrysotile asbestos." And there's citations from 1942	5	A. Yes. I'll get to page
6	and '63.	6	Q. Page 11.
7	BY MS. O'DELL:	7	A. Page 11, "Elemental Scan" at the top.
8	Q. Okay. And did it also say that some of	8	Q. And does this page address the presence
9	the alteration zones contain actinolite, tremolite and	9	of certain heavy metals in Chinese talc deposits?
10	anthophyllite?	10	A. Yes.
11	A. Yes.	11	Q. And what metals specifically were
12	Q. And does the Van Gosen article support	12	elevated?
13	your opinions in this case?	13	A. Titanium.
14	MR. FROST: Objection. Calls for	14	Q. And based on this document, does the
15	speculation.	15	writer include a comment below regarding the need to
16	A. Yes.	16	well, let me just say for the writer's comments below
17	BY MS. O'DELL:	17	regarding the presence?
18	Q. Let me ask you now to turn to Exhibit 15,	18	A. "This very sophisticated analysis shows a
19	which also should be in front of you.	19	relatively wide array of elements in subtrace levels.
20	A. Fifteen.	20	Other high grade talcs can show a similar array. The
21	Q. It's the Chidester	21	analysis represents research information, which should
22	A. Fourteen.	22	be conducted on a periodic basis to anticipate any
23	Q. Fifteen.	23	mineral contamination in future assessments of other
24	A. Okay.	24	exposures of talc in the district."
25	Q. So the Chidester article that was	25	Q. Let me ask you to put that aside, please,
	Page 319		Page 321
1	Page 319 referenced earlier, and I'll ask you to turn to page 28.	1	Page 321
1 2		1 2	
	referenced earlier, and I'll ask you to turn to page 28.		sir. Thank you.
2	referenced earlier, and I'll ask you to turn to page 28. If you'll turn	2	sir. Thank you. If you'll turn now to the IARC monograph,
2	referenced earlier, and I'll ask you to turn to page 28. If you'll turn A. I am on page 28.	2	sir. Thank you. If you'll turn now to the IARC monograph, which I think is on the '93 monograph, which is right
2 3 4	referenced earlier, and I'll ask you to turn to page 28. If you'll turn A. I am on page 28. Q. Right. And does page 28 relate to the	2 3 4	sir. Thank you. If you'll turn now to the IARC monograph, which I think is on the '93 monograph, which is right there. Yes.
2 3 4 5	referenced earlier, and I'll ask you to turn to page 28. If you'll turn A. I am on page 28. Q. Right. And does page 28 relate to the Hammondsville talc mine?	2 3 4 5	sir. Thank you. If you'll turn now to the IARC monograph, which I think is on the '93 monograph, which is right there. Yes. A. This? Five?
2 3 4 5 6	referenced earlier, and I'll ask you to turn to page 28. If you'll turn A. I am on page 28. Q. Right. And does page 28 relate to the Hammondsville talc mine? A. Yes, it does.	2 3 4 5 6	sir. Thank you. If you'll turn now to the IARC monograph, which I think is on the '93 monograph, which is right there. Yes. A. This? Five? Q. That's right, Exhibit 5.
2 3 4 5 6 7	referenced earlier, and I'll ask you to turn to page 28. If you'll turn A. I am on page 28. Q. Right. And does page 28 relate to the Hammondsville talc mine? A. Yes, it does. Q. And was the Hammondsville talc mine one	2 3 4 5 6 7	sir. Thank you. If you'll turn now to the IARC monograph, which I think is on the '93 monograph, which is right there. Yes. A. This? Five? Q. That's right, Exhibit 5. A. Okay.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	referenced earlier, and I'll ask you to turn to page 28. If you'll turn A. I am on page 28. Q. Right. And does page 28 relate to the Hammondsville talc mine? A. Yes, it does. Q. And was the Hammondsville talc mine one of the mines that was used to source Johnson & Johnson's talc? A. Yes. Q. And if you'll look on the right-hand side, on the second paragraph, do you see that? A. Yeah. "The deposit consists entirely of coarse, flakey grit and of steatite. No serpentenite has been found. In the southwestern face of the quarry, there is a large mass of actinolite rock." Q. Does that support your opinions in this case? A. Yes. MR. FROST: Objection. Form. BY MS. O'DELL:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	sir. Thank you. If you'll turn now to the IARC monograph, which I think is on the '93 monograph, which is right there. Yes. A. This? Five? Q. That's right, Exhibit 5. A. Okay. Q. You were asked a number of questions about a statement that you made in your report about, I think along the lines of it was common to find minerals such as tremolite, anthophyllite, asbestos in talc deposits. Do you recall those lines of questions? A. Yes. Q. And if you'll turn to page 284 of the IARC monograph, 284, and this is the '93 monograph that relates to talc not containing asbestiform fibers. If you look at the bottom of 284, what does it say in the IARC monograph regarding the presence of these minerals in talc deposits? A. It discusses minerals associated with talc. "The most common minerals found in talc products

	Page 322		Page 324
1	A. Yes.	1	BY MS. O'DELL:
2	MR. FROST: Object to form.	2	Q. Dr. Krekeler, describe for us the
3	A. Tremolite is listed, anthophyllite is	3	methodology that you've used in reaching your opinions
4	listed, actinolite is listed.	4	in this case.
5	BY MS. O'DELL:	5	A. I evaluated data, I evaluated x-ray
6	Q. And is that supportive of your opinion	6	diffraction data, I evaluated core data, I evaluated
7	that those asbestos minerals are common in talc	7	electron microscopy data, I evaluated bulk chemistry
8	deposits?	8	data, I evaluated descriptions, I used peer-review
9	A. Yes.	9	literature, and these are essentially methods that would
10	MR. FROST: Objection to form.	10	be expected if I was working as a consultant in a
11	BY MS. O'DELL:	11	company.
12	Q. Let me ask you just a general question	12	Q. Did you rely on published books regarding
13	first. How would you define fibrous talc?	13	the geology of Vermont, Italy and China?
14	A. Fibrous tale is a tale particle that has	14	A. Yes.
15	a morphology consistent with the definition of a fiber.	15	Q. To the degree they were available?
16	Q. And would it be fair to say that fibrous	16	A. To the degree, yes. I would agree with
17	talc could be defined as talc formed in an asbestiform	17	that.
18	habit?	18	Q. Is another common source that geologists
19	MR. BILLINGS-KANG: Objection to form.	19	rely on publications such as the U.S. Geological Survey?
20	MR. FROST: Objection to form.	20	A. Yes.
21	A. Yes.	21	Q. And are there also publications from the
22	BY MS. O'DELL:	22	U.S. Bureau of Mines?
23	Q. Let me ask you to look at Exhibit 22,	23	A. Yes.
24	Dr. Krekeler, which I think I had in front of you. It	24	Q. And did you rely on those types of
25	may be.	25	materials in reaching your opinions in this case?
1	Page 323		Page 325
	A. I wenty-two?	1	A. Yes.
2	A. Twenty-two? O. Yes.	1 2	
	Q. Yes.		Q. Is the methodology that you used
2	Q. Yes. A. Okay.	2	Q. Is the methodology that you used methodology that would be generally acceptable in the
2	Q. Yes.	2 3	Q. Is the methodology that you used
2 3 4	Q. Yes.A. Okay.Q. And I would like for you you recall there was a number of documents that Mr. Frost showed	2 3 4	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology?A. Yes.
2 3 4 5	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were	2 3 4 5	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology?
2 3 4 5 6	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were contained in the asbestos chart in your report beginning	2 3 4 5 6	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology? A. Yes. MR. FROST: Objection to form. BY MS. O'DELL:
2 3 4 5 6 7	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were	2 3 4 5 6 7	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology? A. Yes. MR. FROST: Objection to form. BY MS. O'DELL: Q. Did you rely on peer-reviewed literature
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were contained in the asbestos chart in your report beginning at page 14. Do you recall those questions? A. Yes. Q. And if I marked them correctly, Mr. Frost pointed out one, two, three, four, five, six test results that he took issue with. Do you recall that? A. Yes. Q. How many positive tests results, just estimate if you don't know A. Approximately 125. Q. So let me and so let me ask you this question. Is there anything that you heard today that,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology? A. Yes. MR. FROST: Objection to form. BY MS. O'DELL: Q. Did you rely on peer-reviewed literature to support your opinions? A. Yes. Q. Is peer-reviewed literature always available for specific mineral formations or deposits in geology? A. Not necessarily. Q. You were asked about the documents that you had received, internal documents that you had received in formulating your opinions in this case. Obviously, corporate documents were not available to you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were contained in the asbestos chart in your report beginning at page 14. Do you recall those questions? A. Yes. Q. And if I marked them correctly, Mr. Frost pointed out one, two, three, four, five, six test results that he took issue with. Do you recall that? A. Yes. Q. How many positive tests results, just estimate if you don't know A. Approximately 125. Q. So let me and so let me ask you this question. Is there anything that you heard today that, in your mind, would call into question the veracity of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology? A. Yes. MR. FROST: Objection to form. BY MS. O'DELL: Q. Did you rely on peer-reviewed literature to support your opinions? A. Yes. Q. Is peer-reviewed literature always available for specific mineral formations or deposits in geology? A. Not necessarily. Q. You were asked about the documents that you had received, internal documents that you had received in formulating your opinions in this case. Obviously, corporate documents were not available to you other than lawyers giving them to you, fair?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were contained in the asbestos chart in your report beginning at page 14. Do you recall those questions? A. Yes. Q. And if I marked them correctly, Mr. Frost pointed out one, two, three, four, five, six test results that he took issue with. Do you recall that? A. Yes. Q. How many positive tests results, just estimate if you don't know A. Approximately 125. Q. So let me and so let me ask you this question. Is there anything that you heard today that, in your mind, would call into question the veracity of the test results that, the other 125 test results that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology? A. Yes. MR. FROST: Objection to form. BY MS. O'DELL: Q. Did you rely on peer-reviewed literature to support your opinions? A. Yes. Q. Is peer-reviewed literature always available for specific mineral formations or deposits in geology? A. Not necessarily. Q. You were asked about the documents that you had received, internal documents that you had received in formulating your opinions in this case. Obviously, corporate documents were not available to you other than lawyers giving them to you, fair? A. Yes. Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were contained in the asbestos chart in your report beginning at page 14. Do you recall those questions? A. Yes. Q. And if I marked them correctly, Mr. Frost pointed out one, two, three, four, five, six test results that he took issue with. Do you recall that? A. Yes. Q. How many positive tests results, just estimate if you don't know A. Approximately 125. Q. So let me and so let me ask you this question. Is there anything that you heard today that, in your mind, would call into question the veracity of the test results that, the other 125 test results that you reported in the chart, which begins in your report	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology? A. Yes. MR. FROST: Objection to form. BY MS. O'DELL: Q. Did you rely on peer-reviewed literature to support your opinions? A. Yes. Q. Is peer-reviewed literature always available for specific mineral formations or deposits in geology? A. Not necessarily. Q. You were asked about the documents that you had received, internal documents that you had received in formulating your opinions in this case. Obviously, corporate documents were not available to you other than lawyers giving them to you, fair? A. Yes. Correct. Q. You didn't have an independent way to get
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Yes. A. Okay. Q. And I would like for you you recall there was a number of documents that Mr. Frost showed you regarding six asbestos test results that were contained in the asbestos chart in your report beginning at page 14. Do you recall those questions? A. Yes. Q. And if I marked them correctly, Mr. Frost pointed out one, two, three, four, five, six test results that he took issue with. Do you recall that? A. Yes. Q. How many positive tests results, just estimate if you don't know A. Approximately 125. Q. So let me and so let me ask you this question. Is there anything that you heard today that, in your mind, would call into question the veracity of the test results that, the other 125 test results that you reported in the chart, which begins in your report on page 14?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Is the methodology that you used methodology that would be generally acceptable in the field of geology? A. Yes. MR. FROST: Objection to form. BY MS. O'DELL: Q. Did you rely on peer-reviewed literature to support your opinions? A. Yes. Q. Is peer-reviewed literature always available for specific mineral formations or deposits in geology? A. Not necessarily. Q. You were asked about the documents that you had received, internal documents that you had received in formulating your opinions in this case. Obviously, corporate documents were not available to you other than lawyers giving them to you, fair? A. Yes. Correct. Q. You didn't have an independent way to get the documents from Johnson & Johnson or Imerys in order

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_	Page 326		Page 328
1	materials to support the opinions contained in your	1	particular order, but if we can first turn to the IARC
2	report?	2	monograph. It's the one right in front of you there.
3	MR. FROST: Objection to form.	3	Which exhibit number is that?
4	MR. BILLINGS-KANG: Objection to form.	4	A. I'm sorry. What?
5	A. Yes.	5	Q. Which exhibit number is that?
6	BY MS. O'DELL:	6	A. Five.
7	Q. In terms of the testing documents that	7	Q. Okay. If you can turn to page 284.
8	are mentioned and reported in your expert report, are	8	A. Okay.
9	testing documents something that you rely on in the	9	Q. So if you look at the bottom of the page,
10	normal course of your role as a geologist?	10	Miss O'Dell had you read from the line starting, "The
11	A. Yes.	11	most common minerals found in talc products," but before
12	Q. Would that also be true of core logs?	12	that, it reads, "Because talc deposits are formed from
13	A. Yes.	13	different protoliths under many different geological
14	Q. And those are some of the documents that	14	conditions, each talc deposit has a combination of
15	you cited in your report?	15	mineralogy and mineral habit that is distinctive and, in
16	A. Yes.	16	many cases, unique." Did I read that correctly?
17	Q. Let me ask you just to talk just briefly	17	A. There's no citation for that and, yes,
18	about your qualifications as a geologist. As a	18	you did.
19	geologist, are you do you teach the process of	19	Q. Sir, my question is: Did I read that
20	evaluating mineral deposits?	20	correctly?
21	A. Yes. I teach a course on ore deposits,	21	A. Yes.
22	and I've taught courses on industrial minerology and	22	Q. And that's what the IARC monograph says,
23	I've taught	23	correct?
24	Q. Excuse me.	24	A. Correct.
25	A. When I was at George Mason, I would	25	Q. If you can turn to the Van Gosen article,
	Page 327		Page 329
1	regularly teach minerology.	1	which is Exhibit 11.
2	Q. And would those courses have included	2	A. Okay.
3	teaching students how to conduct expiration such as	3	Q. Page 934.
4	drilling, core drilling and other ways to define an ore	4	A. All right. I'm on that page.
5	deposit?	5	Q. Before, when you were reading this, you
6	A. Yes.	6	skipped over most of Number 3. Number 3 reads, "a
7	MR. FROST: Object to form.	7	nearly mono-mineralogical talc zone (often of high
8	BY MS. O'DELL:	8	purity) several centimeters to meters thick." Did I
9	Q. Have you given presentations on those	9	read that correctly?
10	types of activities?	10	A. Yes.
	A. Yes.		
11		11	Q. Do you agree with me that that would be
12	MS. O'DELL: Okay. I don't have anything	12	the talc ore zone, correct?
12 13	MS. O'DELL: Okay. I don't have anything further. Thank you.	12 13	the talc ore zone, correct? MS. O'DELL: Object to the form.
12 13 14	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay.	12 13 14	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly
12 13 14 15	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record?	12 13 14 15	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly a nearly monomineralic mineralogical talc zone.
12 13 14 15 16	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going	12 13 14 15 16	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly a nearly monomineralic mineralogical talc zone. BY MR. FROST:
12 13 14 15 16	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13.	12 13 14 15 16 17	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which
12 13 14 15 16 17	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13. (A recess was taken from 8:13 to 8:20.)	12 13 14 15 16 17 18	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which is the Chidst article — Chidester.
12 13 14 15 16 17 18	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13. (A recess was taken from 8:13 to 8:20.) VIDEOGRAPHER: We are now back on record,	12 13 14 15 16 17 18 19	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which is the Chidst article — Chidester. A. 215.
12 13 14 15 16 17 18 19 20	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13. (A recess was taken from 8:13 to 8:20.) VIDEOGRAPHER: We are now back on record, and the time is 8:20.	12 13 14 15 16 17 18 19 20	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which is the Chidst article — Chidester. A. 215. Q. And specifically page 28. Okay. Counsel
12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13. (A recess was taken from 8:13 to 8:20.) VIDEOGRAPHER: We are now back on record, and the time is 8:20. FURTHER CROSS-EXAMINATION	12 13 14 15 16 17 18 19 20 21	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which is the Chidst article — Chidester. A. 215. Q. And specifically page 28. Okay. Counsel had pointed you to the second paragraph, the second
12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13. (A recess was taken from 8:13 to 8:20.) VIDEOGRAPHER: We are now back on record, and the time is 8:20. FURTHER CROSS-EXAMINATION BY MR. FROST:	12 13 14 15 16 17 18 19 20 21	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which is the Chidst article — Chidester. A. 215. Q. And specifically page 28. Okay. Counsel had pointed you to the second paragraph, the second column down, and you read the, "In the southwest face of
12 13 14 15 16 17 18 19 20 21 22 23	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13. (A recess was taken from 8:13 to 8:20.) VIDEOGRAPHER: We are now back on record, and the time is 8:20. FURTHER CROSS-EXAMINATION BY MR. FROST: Q. All right, Doctor. A couple quick	12 13 14 15 16 17 18 19 20 21 22 23	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which is the Chidst article — Chidester. A. 215. Q. And specifically page 28. Okay. Counsel had pointed you to the second paragraph, the second column down, and you read the, "In the southwest face of the quarry, there is large mass of actinolite rock,"
12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Okay. I don't have anything further. Thank you. THE WITNESS: Okay. MR. FROST: Could we go off the record? VIDEOGRAPHER: Sure. We are now going off record, and the time is 8:13. (A recess was taken from 8:13 to 8:20.) VIDEOGRAPHER: We are now back on record, and the time is 8:20. FURTHER CROSS-EXAMINATION BY MR. FROST:	12 13 14 15 16 17 18 19 20 21 22	the talc ore zone, correct? MS. O'DELL: Object to the form. A. Presumably. A nearly — a nearly monomineralic — mineralogical talc zone. BY MR. FROST: Q. Now, if we can turn to Exhibit 15, which is the Chidst article — Chidester. A. 215. Q. And specifically page 28. Okay. Counsel had pointed you to the second paragraph, the second column down, and you read the, "In the southwest face of

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ı	Page 330		Page 332
1	Q. It doesn't say here that it's asbestos	1	CERTIFICATE
2	actinolite, correct?	2	State of Ohio :
3	A. It does not specifically say that it's		: SS
4	asbestos.	3	County of Hamilton:
5	Q. And you couldn't, without speculating,	4	I, Susan M. Gee, RMR, CRR, the undersigned, a
		5	duly commissioned notary public within and for the State
6	based on this document, say whether or not it's	6	of Ohio, do hereby certify that before the giving of his
7	asbestos, correct?	7	aforesaid deposition, MARK KREKELER, Ph.D., was by me
8	MS. O'DELL: Object to the form.	8	first duly sworn to depose the truth, the whole truth
9	A. I would agree.	9	and nothing but the truth; that the foregoing is the
10	BY MR. FROST:	10	deposition given at said time and place by MARK
11	Q. And then the sentence before that, the	11	KREKELER, Ph.D.; that said deposition was taken in all
12	end of it reads, No serpentine has been found; is that	12	respects pursuant to stipulations of counsel; that I am
13	correct?	14	neither a relative of nor employee of any of their
14	A. No. It says, "No serpentinite."	15	parties or their counsel, and have no interest whatever in the result of the action; that I am not, nor is the
15	Q. "No serpentinite," sorry, "has been	16	court reporting firm with which I am affiliated, under a
16	found"?	17	contract as defined in Civil Rule 28(D).
17	A. "Has been found."	18	IN WITNESS WHEREOF, I have hereunto set my
18	Q. Okay. Sorry. I did read it incorrectly.	19	hand and official seal of office at Cincinnati, Ohio, on
19	You are right. So "No serpentinite has been found"?	20	this 29th day of January, 2019.
20	That's correct?	21	•
21		22	
22	A. Correct. MP EDOST: That's all questions I have		
	MR. FROST: That's all questions I have,	23	My commission expires: S/ Susan M. Gee, RMR, CRR
23	sir.		September 20, 2020. Notary Public - State of Ohio
24	VIDEOGRAPHER: Is that it?	24	
25	MR. FERGUSON: I don't have any	25	
	Page 331		Page 333
1	questions.	1	
2	MS. O'DELL: I have nothing further.	2	
3	MR. FROST: All right.	3	DECLARATION UNDER PENALTY OF PERJURY
4	VIDEOGRAPHER: This adjourns the	4	
5	deposition of Dr. Mark Krekeler. We are now	5	Case Name: Talcum Powder Litigation
5 6	•		Name of Witness: Mark Krekeler, Ph.D.
	going off record, and the time is 8:24.	6	Date of Deposition: January 25, 2019
7	COURT REPORTER: What about signature?	7	
8	MS. O'DELL: Yes.	8	
9	(Exhibit 28 through 30 were marked for	9	I, MARK KREKELER, Ph.D., hereby certify under
10	identification.)	10	penalty of perjury under the laws of the State of
11		11	that the foregoing is true and correct.
12	DEPOSITION CONCLUDED AT 8:34 P.M.	12	Executed this day of
13		13	, 2019, at
14		14	
15		15	
16		16	
		1.5	MARK KREKELER, Ph.D.
17		17	
17 18		1 ^	
		18	
18 19		19	
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18 19 20 21		19 20 21	
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	Page 334	
1	DEDOCUTION EDDATA CHEET	
1 2	DEPOSITION ERRATA SHEET Case Name: Talcum Powder Litigation	
3	Name of Witness: Mark Krekeler, Ph.D. Date of Deposition: January 25, 2019	
4	Reason Codes: 1. To clarify the record. 2. To conform to the facts.	
	3. To correct transcription errors.	
5		
6	Page Line Reason	
7	From to	
8	Page Line Reason	
9	From to	
10	Page Line Reason	
11	From to	
12	Page Line Reason	
13 14	From to	
15	Page Line Reason From to	
16	Page Line Reason	
17	From to	
18	Page Line Reason	
19	From to	
20	Subject to the above changes, I certify that	
	the transcript is true and correct.	
21	No changes have been made. I certify that the	
	transcript is true and correct.	
22		
23		
	MARK KREKELER, Ph.D.	
24		
25		

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